SAMSUNG

DLP TV

SP46L6HV
SP50L6HV
SP61L6HV
SP67L6HV

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

Picture In Picture (PIP)
My Colour Control
SRS TruSurroundXT
DNIe™ Digital Natural Image engine

This device is a Class B digital apparatus.
Register your product at www.samsung.com/global/register

Contents

◆ **Connecting and Preparing Your Television**

- Checking Parts 5
- Control Panel 6
- Connection Panel 7
- Infrared Remote Control 9
- Inserting the Batteries in the Remote Control 10
- Connecting to an Aerial or Cable Television Network 11
- Connecting a Satellite Receiver or Decoder 11
- Switching Your Television On and Off 12
- Placing Your Television in Standby Mode 12
- Becoming Familiar with the Remote Control 13
- Plug & Play Feature 14
- Choosing Your Language 15

◆ **Setting the Channels**

- Storing Channels Automatically 16
- Storing Channels Manually 17
- Skipping Unwanted Channels 19
- Sorting the Stored Channels 20
- Assigning Names to Channels 21
- Locking the Channel 22
- Using the LNA (Low Noise Amplifier) Feature 23
- Fine Tuning Channel Reception 24

◆ **Using Your Display**

- Displaying Information 24
- Changing the Picture Standard 25
- Customizing the Picture Settings 26
- Setting the Picture (PC Mode) 27
- Selecting the Picture Size 29
- Viewing the DNIe Demonstration 30
- Freezing the Current Picture 30
- Setting the My Colour Control (Easy Control) 31
- Setting the My Colour Control (Detail Control) 32
- Setting the Blue Screen 33
- Activating Panel Button Lock 33
- Setting the Film Mode 34
- Viewing the Picture in Picture (PIP) 35
- Using the Digital NR (Noise Reduction) Feature 38
- Changing the Sound Standard 39
- Customizing the Sound Settings 40
- Setting the TruSurround XT 41

continued...

◆ **USING YOUR DISPLAY** (continued)
- Adjusting the Volume Automatically 41
- Selecting the Internal Mute 42
- Setting the Melody Sound 42
- Selecting the Sound Mode (depending on the model) 43
- Setting and Displaying the Current Time 44
- Setting the Sleep Timer 45
- Switching the Television On and Off Automatically 46
- Viewing an External Signal Source 48

◆ **USING THE TELETEXT FEATURE**
- Teletext Feature 49
- Displaying the Teletext Information 50
- Selecting Display Options 51
- Selecting a Teletext Page 52

◆ **ADDITIONAL INFORMATION AND CONNECTIONS**
- Connecting to the External Input/Output 53
- Connecting to the RCA Input 54
- Connecting to the S-Video Input 54
- Connecting to the Component Input 55
- Connecting to the PC Input 55
- Connecting to the HDMI (High Definition Multimedia Interface) Input 56
- Connecting to the HDMI/DVI Compatible 56
- Connecting Home Theater System 57
- Setting up Your PC Software (Windows only) 58
- PC Input Mode 59

◆ **RECOMMENDATIONS FOR USE**
- Replacing the Lamp 60
- Troubleshooting: Before Contacting Service Personnel 61
- Technical Specifications 62

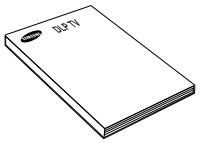
Symbols

Press

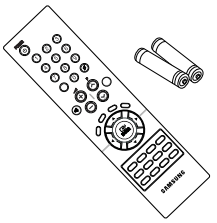
Important

Note

Checking Parts

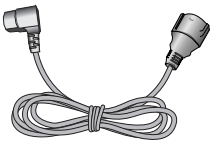


Owner's Instructions



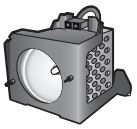
Remote Control/
AAA Batteries

Warranty Card/
Safety Guide Manual
(Not available in
all locations)



Power Cord

Sold Separately



Replacement Lamp

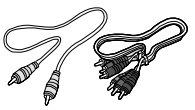
For purchasing a replacement lamp, ask at a nearby service center.

- Use authorized lamps only. The company cannot guarantee the quality of the product if an unauthorized lamp is used.

S-VIDEO Cable

HDMI Cable

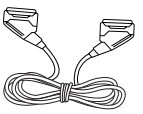
Antenna Cable



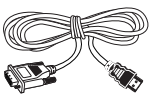
Component Cables
(RCA)

PC Cable

PC Audio Cable



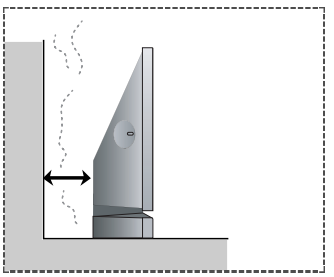
Scart Cable



HDMI/DVI Cable

➢ When installing the product, make sure to keep it away from the wall (more than 10cm) for ventilation purposes.

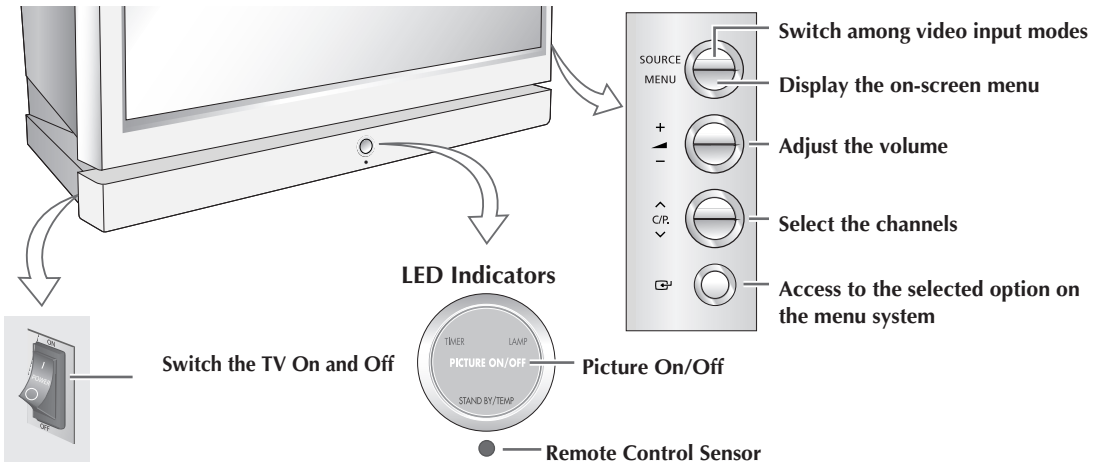
- Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.



Control Panel

➢ The actual configuration on your TV may be different, depending on your model.

Front of the TV



(●:On, ◑:Blinking, ○:Off)

TIMER	LAMP	STAND BY/TEMP	Indication
○	○	●	Standby mode.
●	○	○	A timer pilot lights when Timer Auto On or Off is selected.
○	○	○	Normal operation.
●	○	○	Normal operation (when Timer Auto On or Off is selected).
○	◑	○	Lamp is warming up. The normal picture comes on after 25 seconds.
●	◑	○	The normal picture comes on after 25 seconds. (when Timer Auto On or Off is selected)
○	◑	◑	Air vent cover in the rear of the TV is not properly installed.
○	○	◑	Inside temperature of the TV is over normal. Clean the air vent cover in the rear of the TV. Turn the TV back on after 1 hour.
◑	◑	◑	The lamp does not work, please contact an authorized Service Center for assistance.

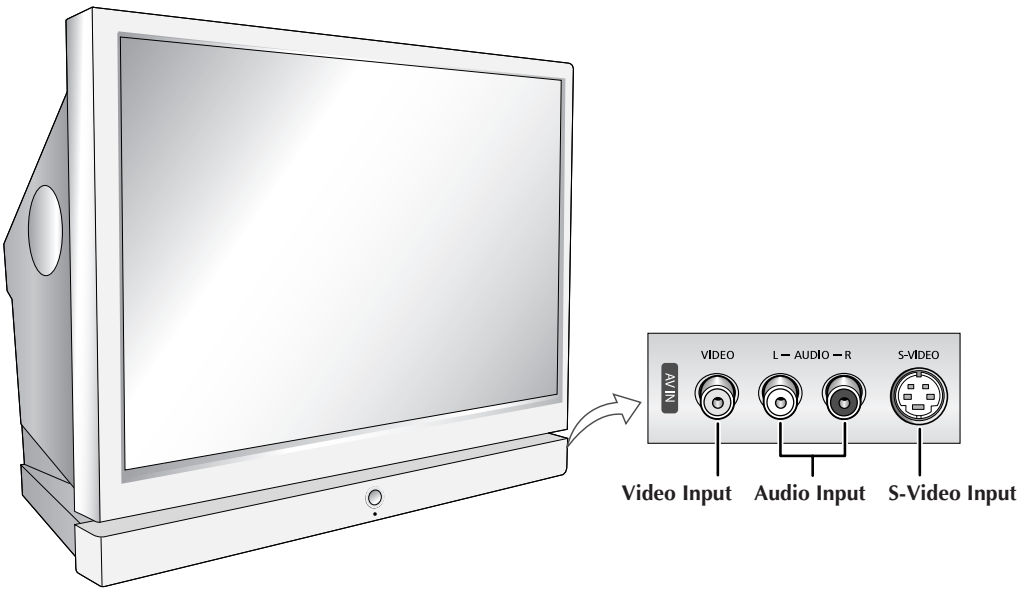
➢
- ◆ You can use the channel selection buttons to switch on the TV when it is in standby mode depending on the model.
- ◆ When using the on-screen menu the volume adjustment and channel selection buttons have the same function as the ▲/▼/◄/► buttons on the remote control.
- ◆ If the remote control no longer works or you have lost it, you can use controls on the panel of the TV.
- ◆ Press the "**I**" side of the POWER switch to supply power to the TV. If the "**I**" side of the POWER switch is not pressed, the **POWER** button on the remote control and the Picture On/Off switch on the front panel of the TV will not work.

continued...

Connection Panel

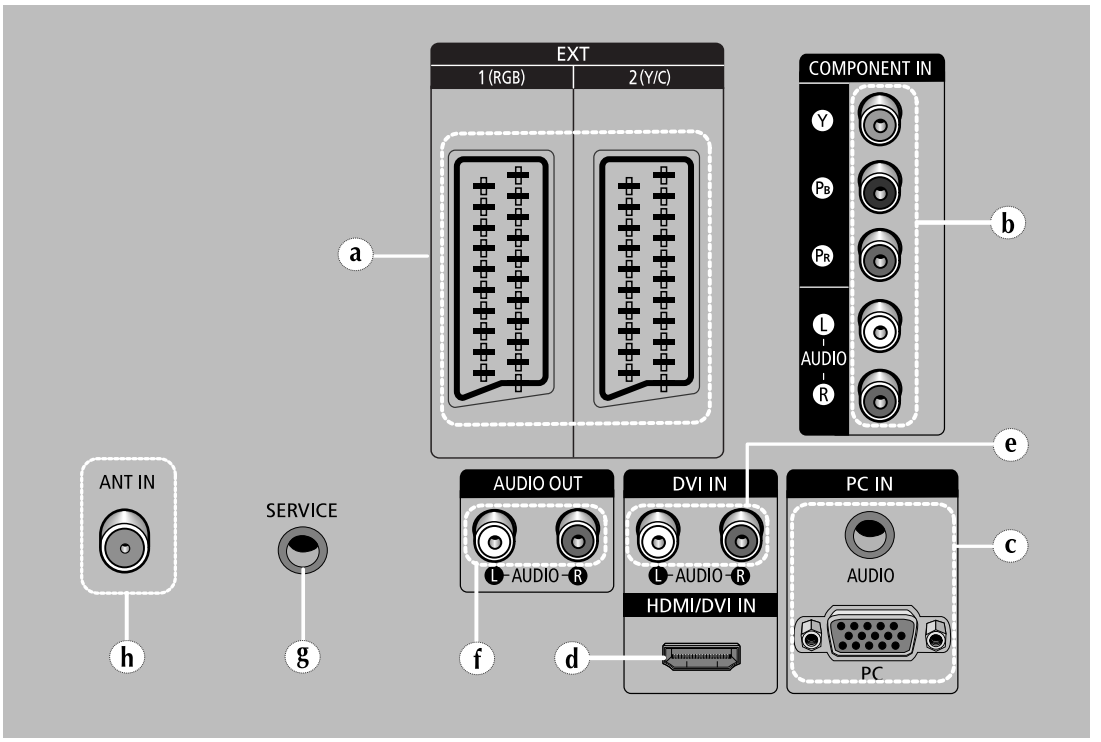
➢ The actual configuration on your TV may be different, depending on your model.

Side of the TV



continued...

Rear of the TV



a) EXT 1(RGB), 2(Y/C)
Inputs or outputs for external devices, such as VCR, DVD, video game consoles or Cable/Satellite sources.

b) COMPONENT IN
Video (**Y/P_B/P_R**) and audio (**AUDIO L/R**) inputs for Component.

c) PC IN (PC / AUDIO)
Connect to the video and audio output jack on your PC.

d) HDMI/DVI IN
Connect to the HDMI jack of a device with HDMI output. These inputs can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using the optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC)

e) DVI IN (AUDIO L/R)
DVI audio inputs for external devices.

f) AUDIO OUT
Connect to the external audio amplifier.

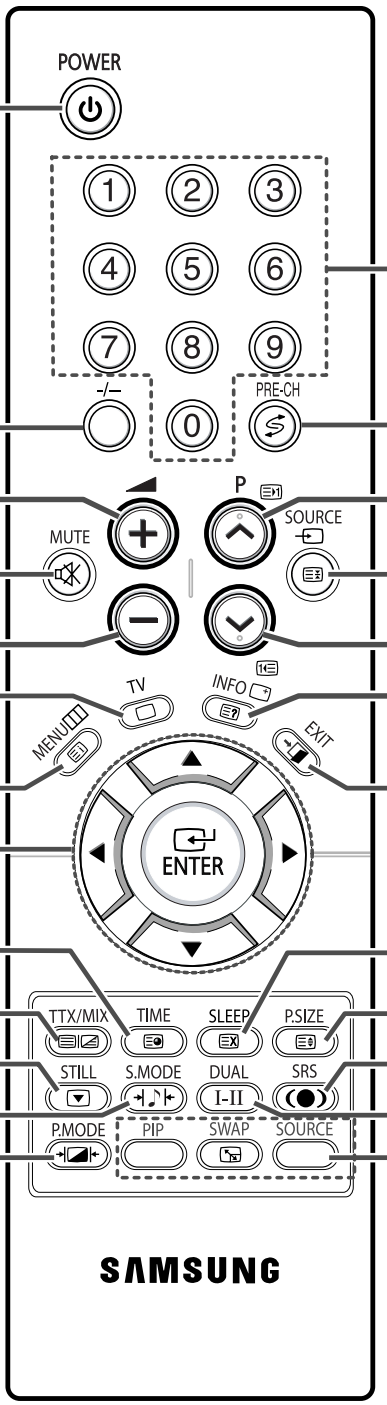
g) SERVICE
Service connection for qualified service engineer.

h) ANT IN
Coaxial connector for Aerial/Cable Network.

➢ For further details about connection, refer to pages 53~57.

➢ Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Infrared Remote Control



Turns the TV on and off

One or two-digit channel selection

Volume increase

Temporary sound switch-off

Volume decrease

TV mode selection

Menu display/ Teletext index

Move to the required menu option/ Adjust an option value respectively

Current time display/ Teletext Sub-page

Teletext display/ Mix both teletext information and the normal broadcast

Picture still (Refer to page 30)

Sound effect selection (Refer to page 39)

Picture effect selection (Refer to page 25)

Direct channel selection

Switch repeatedly between the last two channels displayed

Next channel/ Teletext next page

External input selection/ Teletext page hold

Previous channel/ Teletext previous page

Information display/ Teletext reveal (Refer to page 24)

Exit menu

Automatic switch-off/ Teletext cancel (Refer to page 45)

Picture size/ Teletext size selection (Refer to page 29)

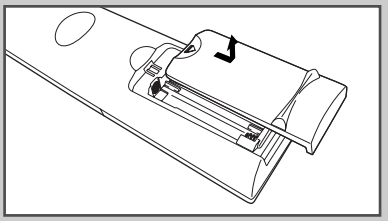
TruSurround XT mode selection (Refer to page 41)

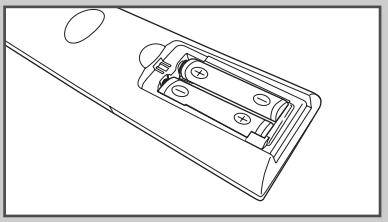
Sound mode selection

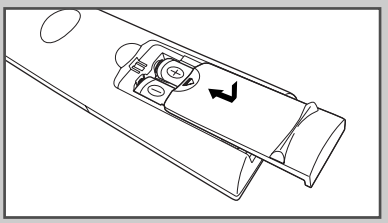
PIP functions:
- **PIP activation or deactivation (PIP)**
- **Swapping the main and the sub picture (SWAP)**
- **Source selection (SOURCE)**

➢ *The performance of the remote control may be affected by bright light.*

Inserting the Batteries in the Remote Control







You must insert or replace the batteries in the remote control when you:

- ***Purchase the television***
- ***Find that the remote control is no longer operating correctly***

1 Remove the cover on the rear of the remote control by pressing the symbol (▼) downwards and then pulling firmly to remove it.

2 Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to match the polarities:
- **–** on the battery against **–** on the remote control
- **+** on the battery against **+** on the remote control

3 Replace the cover by aligning it with the base of the remote control and pressing it back into place.

➢ Do not mix battery types, i.e. alkaline and manganese.

Connecting to an Aerial or Cable Television Network

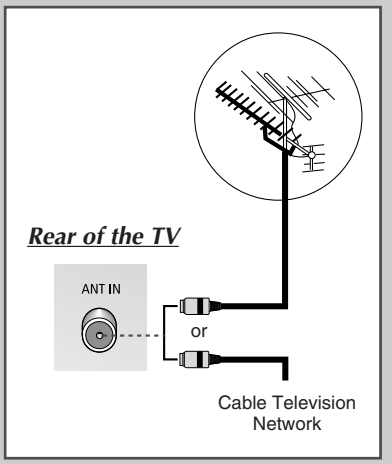
To view television channels correctly, a signal must be received by the set from one of the following sources:

- ***An outdoor aerial***
- ***A cable television network***
- ***A satellite network***
- ***An indoor aerial***

1 In the first three cases, connect the aerial or network input cable to the **ANT IN** jack on the rear of the television.

2 If you are using an indoor aerial, you may need to adjust its position when tuning your television until you obtain a picture that is both sharp and clear.
For further details, refer to:
- "Storing Channels Automatically" on page 16.
- "Storing Channels Manually" on page 17.

➢ When installing or re-installing your TV, be sure to use the supplied coaxial antenna cable. If you connect using a different coaxial cable, there is risk of noise or interference to the screen image. (You must not use another general purpose cable. Use the 3M/5M/7M cable supplied by Samsung.)



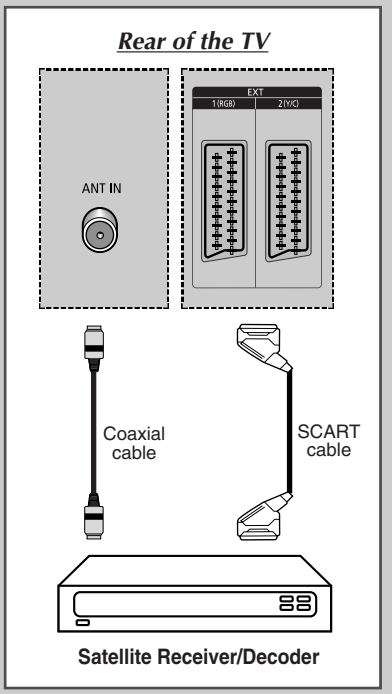
Connecting a Satellite Receiver or Decoder

In order to watch television programmes broadcast via a satellite network, you must connect a satellite receiver to the rear of TV. Also, in order to descramble a coded transmission signal, you must connect a decoder to the rear of TV.

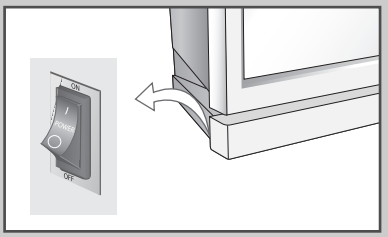
- ***Using a SCART cable***
  Connect the receiver (or decoder) SCART cable to one of the SCART connectors on the rear of the television.
- ***Using a coaxial cable***
  Connect a coaxial cable to the:
  – Receiver (or Decoder) output socket.
  – Television aerial input socket.

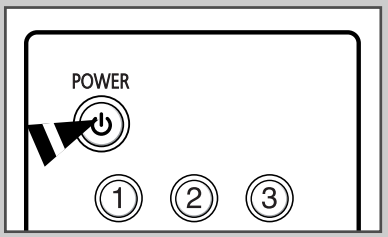
➢ If you wish to connect both a satellite receiver (or decoder) and a VCR, you should connect the:
- Receiver (or Decoder) to the VCR
- VCR to the television

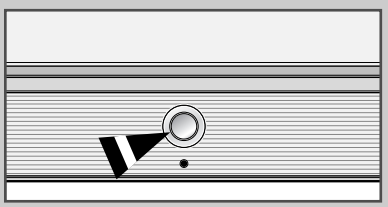
Otherwise, connect the receiver (or decoder) directly to the television.



Switching Your Television On and Off







Plug the mains lead to the rear of your television.

1 Plug the mains lead into an appropriate socket.

➢ The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.

2 Press the power switch on the side of the television toward "**ON**" (**I**).

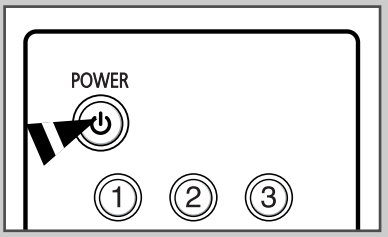
3 Press the **POWER** (⏻) button on the remote control (or the button on the front of the television).

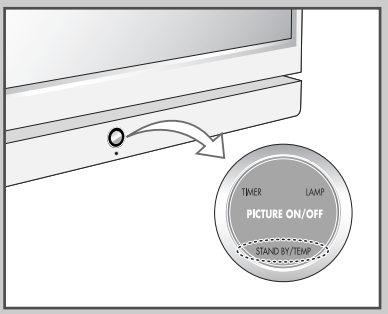
Result: The programme that you were watching last is re-selected automatically. However, if a SCART signal input is present, the SCART signal has priority.

➢ If you have not yet stored any channels, No clear picture appears. Refer to "Storing Channels Automatically" on page 16 or "Storing Channels Manually" on page 17.

4 To switch your television off, press the power switch toward "**OFF**" (**O**).

Placing Your Television in Standby Mode





Your television can be placed in Standby mode, in order to reduce the power consumption.

The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1 Press the **POWER** (⏻) button on the remote control to turn the screen off.

Result: The **STAND BY/TEMP** indicator on the front of the television turns on.

2 To turn the screen back on, simply press the **POWER** (⏻) button again.

➢ You can also switch on by pressing the **P**∧/∨, **TV** (▭) or any numeric button on the remote control.

☛ Do not leave your television in Standby mode for long periods of time (when you are away on holiday, for example). Turn your television off by pressing the power switch on the back of the set. It is best to unplug the set from the mains and aerial.

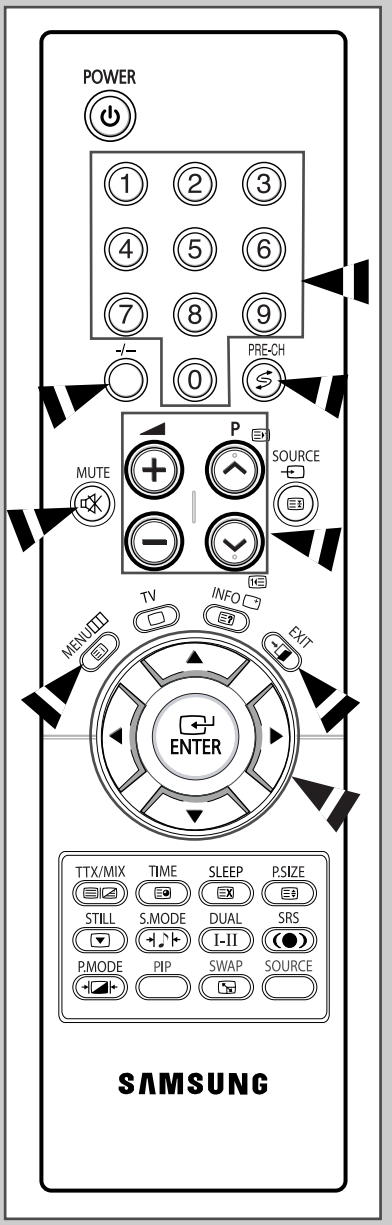
Becoming Familiar with the Remote Control

The remote control is used mainly to:

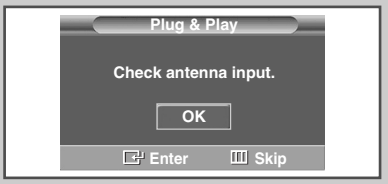
- ***Change channels and adjust the volume.***
- ***Set up the television using the on-screen menu system.***

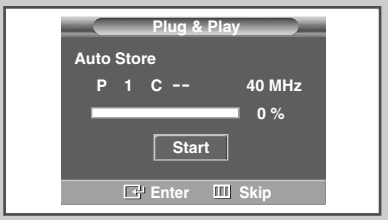
The following table presents the most frequently used buttons and their functions.

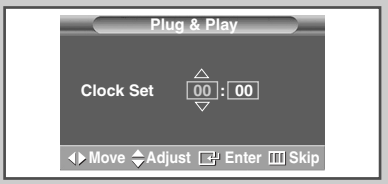
Button	Viewing Function	Menu Function
P	Used to display the next stored channel. Used to display the previous stored channel.	– –
0 to 9	Used to display the corresponding channels. ➢ For double digit channels, the second digit must be pushed immediately after the first. Failure to do this will result in a single digit channel being displayed.	
–/––	Used to select a channel numbered ten or over. Press this button, and the "**--**" symbol is displayed. Enter the two-digit channel number.	
	Used to increase the volume. Used to decrease the volume.	
MUTE	Used to switch the sound off temporarily. ➢ To turn the sound back on, press this button again, or press the ⊕ or ⊖ button.	
MENU	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
	–	Used to: ◆ Display a sub-menu containing selections for the current menu option. ◆ Increase/decrease a menu option value.
ENTER	–	Used to confirm your choice.
EXIT		Used to exit from the menu system and return to normal viewing directly.
PRE-CH	Press the **PRE-CH** button. The TV will switch to the last channel viewed. To quickly switch between two channels that are far apart, select the first channel, then use the numeric buttons to select the second channel. Then, use the **PRE-CH** button to quickly alternate between them.	

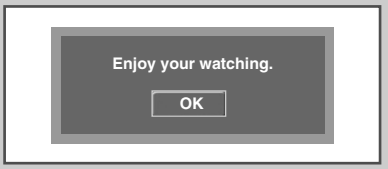


Plug & Play Feature









When the television is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

1 If the television is in standby mode, press the **POWER** (⏻) button on the remote control.

Result: The message to start Plug & Play is displayed.

2 To start Plug & Play, press the **ENTER** (↵) button.

Result: The **Language** menu is displayed.

➢ The **Language** menu will automatically appear after several seconds, even if the **ENTER** (↵) button is not pressed.

3 Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

Result: The message to check the connected status of the antenna is displayed.

4 Make sure that the antenna is connected to the TV. Press the **ENTER** (↵) button.

Result: The **Country** menu is displayed.

➢ If you do not press the **ENTER** (↵) button, the clock setting menu appears after several seconds.

5 Select your country or area by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

Result: The menu to select channels is displayed.

6 To start channel store, press the **ENTER** (↵) button.

Result: The search will end automatically. Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). When this has finished, the menu to set the time will be displayed.

➢ To stop the search before it has finished or return to normal viewing, press the **MENU** (▥) or the **ENTER** (↵) button.

➢ Press the **ENTER** (↵) button to set the clock.

7 Press the ◀ or ▶ button to select the hour or minute. Set these by pressing the ▲ or ▼ button.

➢ You can enter the hours or minutes by using the numeric buttons on the remote control.

8 The settings are complete, and the stored channel will be activated.

continued...

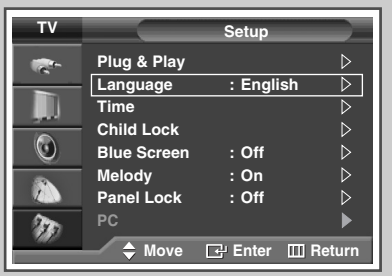
If you want to reset this feature...

1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The **Setup** menu is displayed.
3	Press the **ENTER** (↵) button.
4	Press the **ENTER** (↵) button again to select **Plug & Play**. Result: The message to start Plug & Play is displayed.
5	For further details on settings, refer to the previous page.

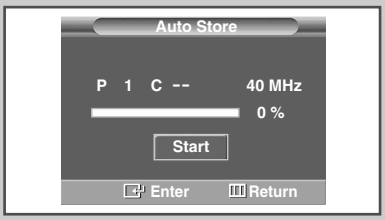
Choosing Your Language

When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The **Setup** menu is displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Language**. Press the **ENTER** (↵) button. Result: The available languages are listed.
5	Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.
6	Press the **EXIT** button to exit.



Storing Channels Automatically



You can scan for the frequency ranges available to you (availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The **Channel** menu is displayed.

3 Press the **ENTER** (↵) button.

Result: The **Country** is selected.

4 Press the **ENTER** (↵) button again.

Result: The available countrys are listed.

5 Select your **Country** by pressing the ▲ or ▼ button.

➢ If you have selected the **Others** option but do not wish to scan the PAL frequency range, store the channels manually (“Storing Channels Manually” on page 18).

6 Press the **ENTER** (↵) button.

7 Press the ▲ or ▼ button to select **Auto Store**.
Press the **ENTER** (↵) button.

Result: The **Auto Store** menu is displayed.

8 Press the **ENTER** (↵) button again to start the search.

Result: The search will end automatically. Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). The programme originally selected is then displayed.

➢ To stop the search before it has finished, press the **MENU** (▥) or the **ENTER** (↵) button.

9 When the channels have been stored, you can:

- Sort them in the order required (“Sorting the Stored Channels” on page 20).
- Clear a channel (“Skipping Unwanted Channels” on page 19).
- Fine-tune channel reception if necessary (“Fine Tuning Channel Reception” on page 24).
- Assign a name to the stored channels (“Assigning Names to Channels” on page 21).
- Activate/deactivate the Digital NR (**N**oise **R**eduction) feature (“Using the Digital NR (**N**oise **R**eduction) Feature” on page 38).
- Activate/deactivate the LNA (**L**ow **N**oise **A**mplifier) feature (“Using the LNA (**L**ow **N**oise **A**mplifier) Feature” on page 23).

Storing Channels Manually

You can store television channels, including those received via cable networks.

When storing channels manually, you can choose:

- *Whether or not to store each of the channels found.*
- *The programme number of each stored channel which you wish to identify.*

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The **Channel** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Manual Store**.
Press the **ENTER** (↵) button.

5 If necessary, select the broadcasting standard required.
Press the ▲ or ▼ button to select **Colour System**.
Press the **ENTER** (↵) button.

6 Select the required colour standard by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

Result: The following options are available. (depending on the model)

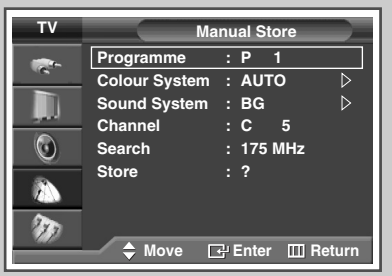
AUTO - PAL - SECAM - NTSC 4.43

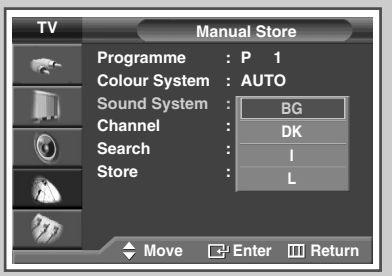
7 Press the ▲ or ▼ button to select **Sound System**.
Press the **ENTER** (↵) button.

8 Select the required sound standard by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

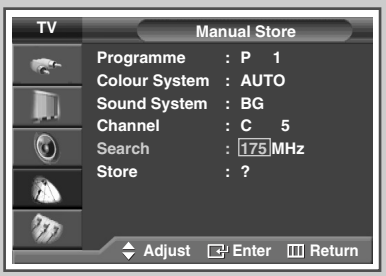
Result: The following options are available.

BG - DK - I - L





continued...



9 If you know the number of the channel to be stored, see the following steps.

- Press the ▲ or ▼ button to select **Channel**. Press the **ENTER** (↵) button.
- Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel).
- Press the ▶ button.
- Press the ▲ or ▼ button to select the required number. Press the **ENTER** (↵) button.

➢ You can select the channel directly by pressing the numeric buttons on the remote control.

➢ If there is abnormal sound or no sound, re-select the sound standard required.

10 If you do not know the channel numbers, select **Search** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button. Press the ▲ or ▼ button to start the search. Press the **ENTER** (↵) button.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

11 To assign a programme number to a channel, select **Programme** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

12 Press the ▲ or ▼ button until you find the correct number. Press the **ENTER** (↵) button.

➢ You can select the programme directly by pressing the numeric buttons on the remote control.

13 To store the channel and associated programme number, select **Store** by pressing the ▲ or ▼ button. Set to **OK** by pressing the **ENTER** (↵) button.

14 Repeat steps **9** to **13** for each channel to be stored.

15 Press the **EXIT** button to exit.

☛ ***Channel mode***

- **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

Skipping Unwanted Channels

You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those that you have chosen to skip are not displayed.
All channels that you do not specifically choose to skip are displayed during scanning.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The **Channel** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Add/Delete**.
Press the **ENTER** (↵) button.

Result: The **Add/Delete** menu is displayed with the current channel selected.

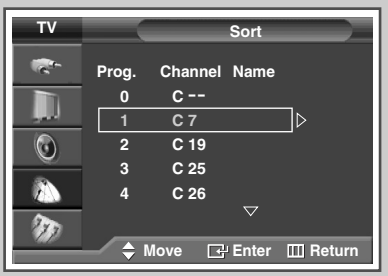
5 Press the ▲ or ▼ button to delete or add the required channel.
Press the **ENTER** (↵) button.

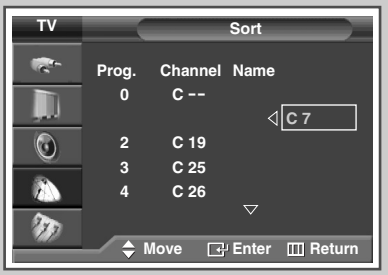
Result: If the **ENTER** (↵) button is pressed repeatedly, the ✓ will appear and disappear.
If the ✓ appears, the channel is added.

6 Repeat step **5** for each channel to be deleted or added.

7 Press the **EXIT** button to exit.

Sorting the Stored Channels





This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using auto store.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The **Channel** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Sort**.
Press the **ENTER** (↵) button.

5 Select the channel that you wish to move by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

6 Select the number of the programme to which the channel is to be moved by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

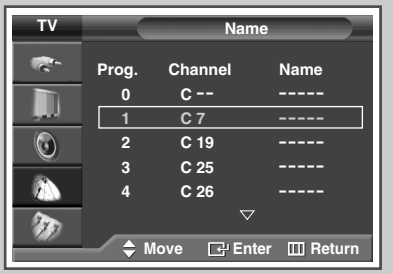
Result: The channel is moved to its new position and all other channels are shifted accordingly.

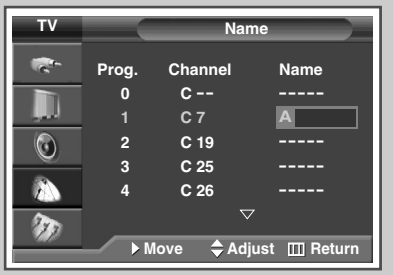
7 Repeat steps **5** to **6** until you have moved all the channels to the required programme numbers.

8 Press the **EXIT** button to exit.

Assigning Names to Channels

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.





1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The **Channel** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Name**.
Press the **ENTER** (↵) button.

Result: The **Name** menu is displayed with the current channel selected.

5 Press the ▲ or ▼ button to select the channel to be assigned to a new name. Press the **ENTER** (↵) button.

Result: Arrow indications are displayed around the name box.

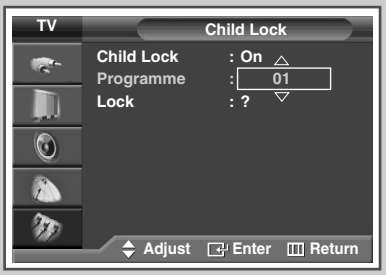
6 Press the ▲ or ▼ button to select a letter (A~Z), a number (0~9), or a symbol. Move on to the previous or next letter by pressing the ◀ or ▶ button.

7 Press the **ENTER** (↵) button.

8 Repeat steps **5** to **7** for each channel to be assigned to a new name.

9 Press the **EXIT** button to exit.

Locking the Channel



This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using front panel buttons. Only remote control can release the Child Lock setting, so keep the remote control away from children.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The **Setup** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Child Lock**.
Press the **ENTER** (↵) button.

5 Press the **ENTER** (↵) button again.
Select **On** by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

6 Press the ▲ or ▼ button to select **Programme**.
Press the **ENTER** (↵) button.

7 Select the number of programme to which the channel is to be locked by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

8 Press the ▲ or ▼ button to select **Lock**.
Select **Locked** by pressing the **ENTER** (↵) button.

Result: The selected channel is locked and marked with the 🔒 symbol.

9 Press the **EXIT** button to exit.

➢
- A Blue screen is displayed when the **Child Lock** is activated.
- To unlock the Channel lock, press the **ENTER** (↵) button again. The locked channel is unlocked.
- When a channel is locked, the channel is marked with the 🔒 symbol on the left side in the Channel OSD (On Screen Display).

Using the LNA (Low Noise Amplifier) Feature

This function is very useful in the situation that the TV is used in a weak signal area. LNA amplifies the TV signal in the weak signal area, a low-noise preamplifier boosts the incoming signal.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The **Channel** menu is displayed.

3 Press the **ENTER** (↵) button.

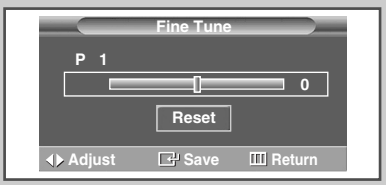
4 Press the ▲ or ▼ button to select **LNA**.
Press the **ENTER** (↵) button.

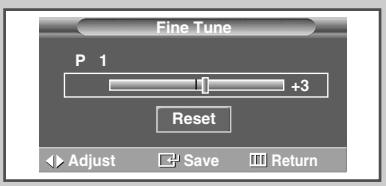
5 Select **Off** or **On** by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

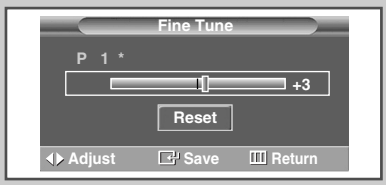
6 Press the **EXIT** button to exit.

➢
- If the picture is noisy with the **LNA** set to **On**, select **Off**.
- **LNA** setting must be set for each individual channel.

Fine Tuning Channel Reception







If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The **Channel** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Fine Tune**.
Press the **ENTER** (↵) button.

Result: The horizontal bar is displayed.

5 To obtain a sharp and clear picture and good sound quality, press the ◄ or ► button until you reach the optimal setting.

6 To store the fine tuning setting in the TV's memory, press the **ENTER** (↵) button.

Result: The programme number changes to red and is marked with a "*".

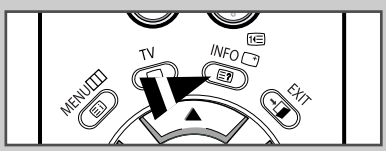
7 To reset the fine tuning to **0**, select **Reset** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

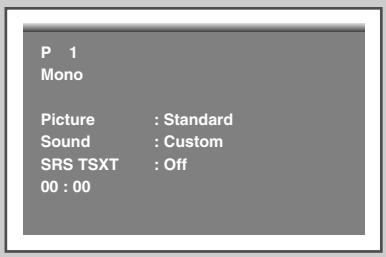
8 Press the **EXIT** button to exit.

➢ If you are unable to fine tune a channel, check that the Colour System and Sound System settings are correct.

➢ Fine Tune Store will change the colour of the Channel OSD (On Screen Display) from White to Red and add the "*" mark.

Displaying Information





You can view the channel information and setting status you have selected by pressing the INFO (↵) button on the remote control. The information displayed varies according to the selected source.

Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The **Picture** menu is displayed.

3 Press the **ENTER** (↵) button.

Result: The **Mode** is selected.

4 Press the **ENTER** (↵) button again.

Result: The **Mode** menu is displayed.

5 Press the **ENTER** (↵) button.

Result: The following options are available.

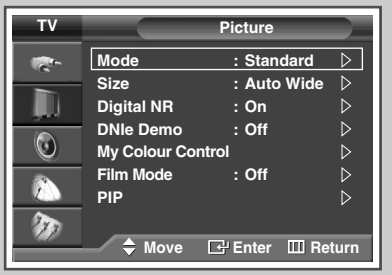
Dynamic - **Standard** - **Movie** - **Custom**

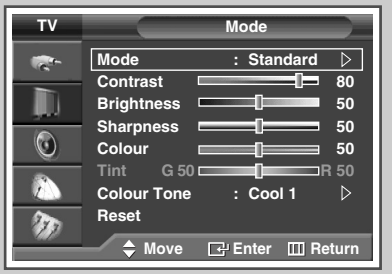
➢
- Choose **Dynamic** for viewing the TV during the day or when there is bright light in the room.
- Choose **Standard** for the standard factory settings.
- Choose **Movie** when viewing a movie.
- Choose **Custom** if you want to adjust the settings according to personal preference (see "Customizing the Picture Settings", page 26).

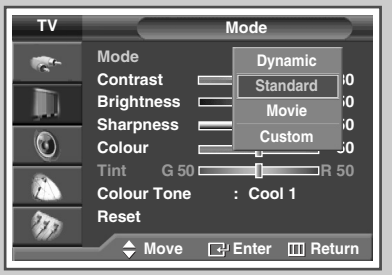
6 Select the required option by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

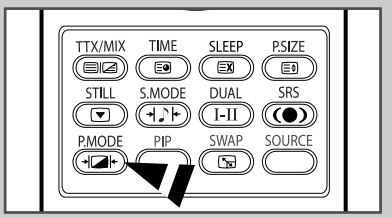
7 Press the **EXIT** button to exit.

➢ You can also set these options simply by pressing the **P.MODE** (◪: Picture Mode) button on the remote control.

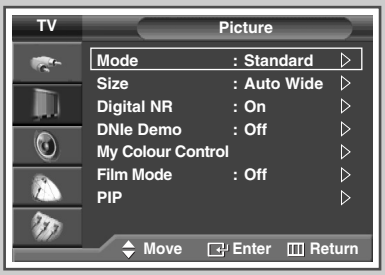


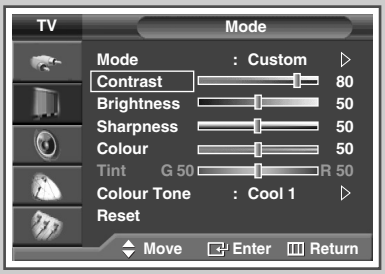


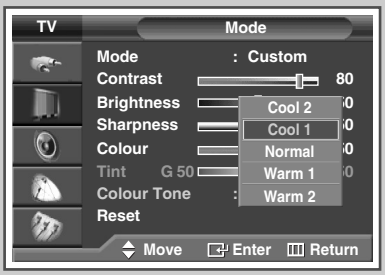


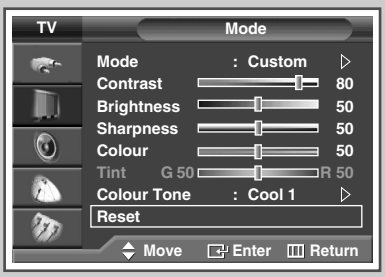


Customizing the Picture Settings









Your television has several setting options that allow you to control the picture quality.

1 Press the **MENU** ( ) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.
Result: The **Picture** menu is displayed.

3 Press the **ENTER** ( ) button.
Result: The **Mode** is selected.

4 Press the **ENTER** ( ) button again.
Result: The **Mode** menu is displayed.

5 Press the **ENTER** ( ) button.
Result: The following options are available.
Dynamic - **Standard** - **Movie** - **Custom**

6 Select the required option by pressing the ▲ or ▼ button.

7 Press the **ENTER** ( ) button.

8 Select the required option by pressing the ▲ or ▼ button.
Result: The following options are available.
- **Contrast** - **Brightness** - **Sharpness** - **Colour** - **Tint** (NTSC only)
- **Contrast** - **Brightness** : PC mode.

9 Press the **ENTER** ( ) button.
Result: The horizontal bar is displayed.
Press the ◄ or ► button until you reach the optimal setting.

➢
- Press the ▲ or ▼ button to select other option(s).
- The settings values may vary depending on the input source. (ex. RF, Video, Component, PC, or HDMI.)

10 Press the **MENU** ( ) button to return to **Mode** menu.
Press the ▲ or ▼ button to select **Colour Tone**.
Press the **ENTER** ( ) button.

11 Select the required option by pressing the ▲ or ▼ button.
Result: The following options are available.
Cool 2 - **Cool 1** - **Normal** - **Warm 1** - **Warm 2**

12 Press the **ENTER** ( ) button.

13 To return the factory defaults, select **Reset** by pressing the ▲ or ▼ button. Press the **ENTER** ( ) button.
Result: The previously adjusted settings will be reset to the factory defaults.

➢ The reset function is set for each mode (**Dynamic**, **Standard**, **Movie**, or **Custom**).

➢ The reset function is also set for each **Colour Tone** (**Cool 2**, **Cool 1**, **Normal**, **Warm 1**, or **Warm 2**).

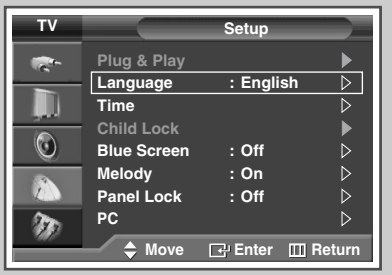
14 Press the **EXIT** button to exit.

Setting the Picture (PC Mode)

➢ Preset to the **PC** mode by pressing the **SOURCE** (⏎) button.

1 Press the **MENU** (☐☐) button.

Result: The main menu is displayed.



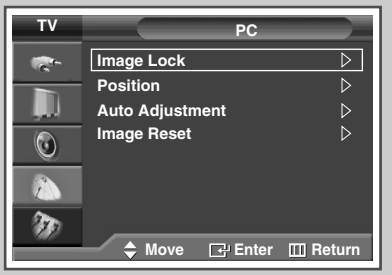
2 Press the ▲ or ▼ button to select **Setup**.

Result: The **Setup** menu is displayed.

3 Press the **ENTER** (⏎) button.

4 Press the ▲ or ▼ button to select **PC**.
Press the **ENTER** (⏎) button.

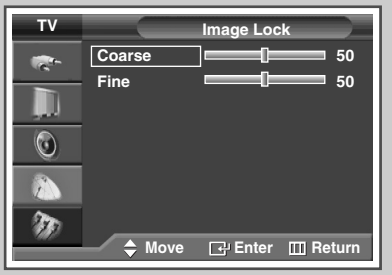
Result: The **PC** menu is displayed.



5 Press the **ENTER** (⏎) button to select **Image Lock.**
Press the **ENTER** (⏎) button.

6 Press the ▲ or ▼ button to select the option (**Coarse** or **Fine**) to be adjusted. Press the **ENTER** (⏎) button.

Result: The horizontal bar is displayed.
Press the ◄ or ► button until you reach the optimal setting.



➢ The purpose of picture quality adjustment is to remove or reduce picture noise.
If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

➢ Press the ▲ or ▼ button to select other option(s).

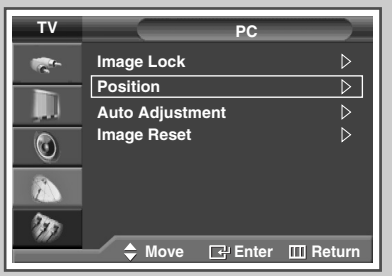
7 Press the **ENTER** (⏎) button.

8 Press the **MENU** (☐☐) button.

Result: The **PC** menu is displayed again.

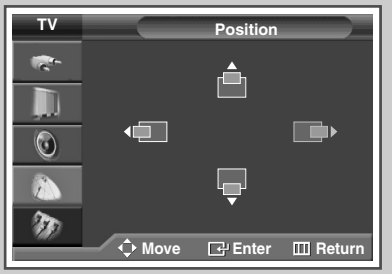
9 Press the ▲ or ▼ button to select **Position**.
Press the **ENTER** (⏎) button.

➢ Adjust the PC's screen positioning if it does not fit the TV screen.

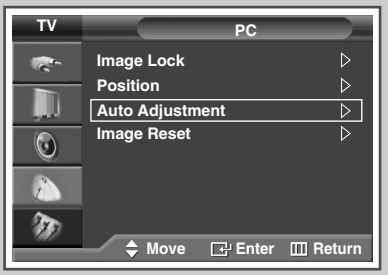


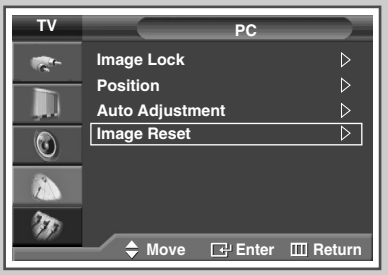
10 Adjust the position by pressing the ▲/▼/◄/► button.

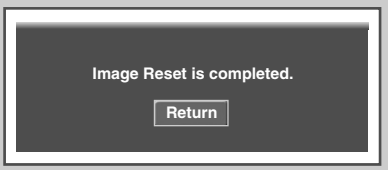
11 Press the **ENTER** (⏎) button.



continued...







12 Press the ▲ or ▼ button to select **Auto Adjustment**. Press the **ENTER** (↵) button.

Result: The screen quality and position are automatically reset. The settings are all finished, and the TV will automatically return to the previous picture.

13 To return the factory defaults, select **Image Reset** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

Result: The previously adjusted settings will be reset to the factory defaults.

14 Press the **EXIT** button to exit.

Selecting the Picture Size

You can select the picture size which best corresponds to your viewing requirements.

1 Press the **MENU** (☐☐☐) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **`Picture`**.

Result: The **`Picture`** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **`Size`**.
Press the **ENTER** (↵) button.

5 Select the required option by pressing the ▲ or ▼ button.

Result: The following modes are available depending on the mode.

- **`Auto Wide`** : Expanding and pulling up the picture from **`4:3`** to **`16:9`** ratio.
- **`16:9`** : Sets the picture to 16:9 wide mode. Press the ▶ button. The picture position (,) and size ( ) adjustment are able in these mode by pressing the ▲ or ▼ button.
- **`Zoom`** : Magnify the size of the picture vertically on screen. Press the ▶ button. The picture position ( ) and size ( ) adjustment are able in these mode by pressing the ▲ or ▼ button.
- **`4:3`** : Sets the picture to 4:3 wide mode. Press the ▶ button. The picture position (,) and size ( ) adjustment are able in these mode by pressing the ▲ or ▼ button.

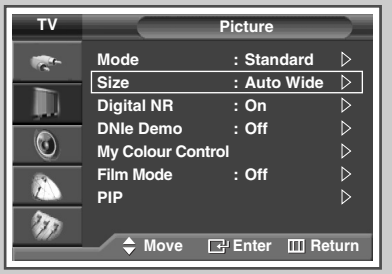
6 When you are satisfied with your setting, press the **ENTER** (↵) button.

7 Press the **EXIT** button to exit.

➢
- You can select these options simply by pressing the **P.SIZE** button on the remote control.
- If you change the picture size when PIP is On, PIP will automatically be turned Off.
- Depending on the input source, the **P.SIZE** options may vary.

Positioning and Sizing the screen using Zoom

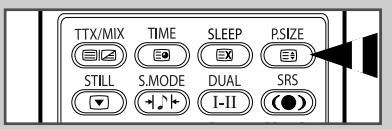
➢
- Resizing the screen using the **`Zoom`** enables the positioning and sizing of the screen to up/down direction using the ▲ or ▼ button as well as the screen size.
- Move the screen up/down using the ▲ or ▼ button after selecting the by pressing the ◀ or ▶ button.
- Resize the screen vertically using the ▲ or ▼ button after selecting the by pressing the ◀ or ▶ button. (Pressing the ▲ button extends it upward and pressing the ▼ button extends it downward.)
- Screen enlargement operates only in RF/AV/S-video/SD level Component(480i,576i,480p,576p) input modes.



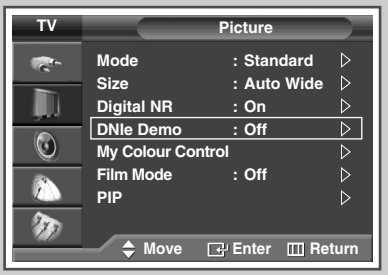
RF/AV/S-Video SD-level-Component Mode

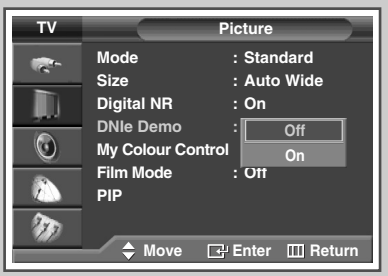
PC Mode

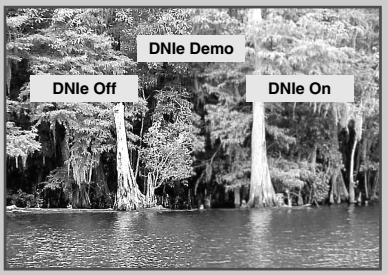
HDMI Mode



Viewing the DNIe Demonstration







This TV includes the DNIe function so as to provide a high visual quality.
If you set DNIe Demo to On, you can view an applied DNIe and a normal picture on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.

1 Press the **MENU** (☐☐☐) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The **Picture** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **DNIe Demo**.
Press the **ENTER** (↵) button.

5 Select **Off** or **On** by pressing the ▲ or ▼ button.

Result: The following options are available.

- **On** : Switches on the **DNIe Demo** mode.
- **Off** : Switches off the **DNIe Demo** mode.

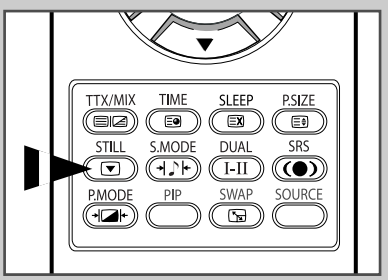
6 When you are satisfied with your setting, press the **ENTER** (↵) button.

7 Press the **EXIT** button to exit.

➢ **DNIe™ (D**igital **N**atural **I**mage **e**ngine) DNIe

This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNIe™ technology will fit every signal into your eyes.

Freezing the Current Picture

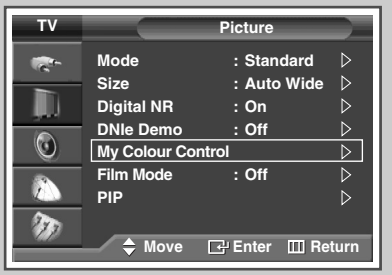


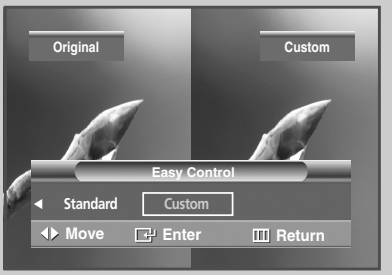
You can freeze the picture when watching a television programme simply by pressing the STILL button. To return to normal viewing, press it again.

➢ In the PIP mode, the main and sub pictures are stilled at the same time.

Setting the My Colour Control (Easy Control)

This feature allows you to adjust colours according to your preferences, by adjusting skin, sky, and grass tones using the predefined settings (Blue, Green, Pink, Standard, and Custom) without affecting other colours on the screen.





1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The **Picture** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **My Colour Control**.
Press the **ENTER** (↵) button.

Result: The **Easy Control** is selected.

5 Press the **ENTER** (↵) button again.

➢ The current image will be displayed on the screen.

Result: The following options are available.

- **Blue**
  Emphasizing clear blues.
- **Green**
  Emphasizing mild greens.
- **Pink**
  Emphasizing warm skin colours.
- **Standard**
  Standard picture.
- **Custom**
  Changing the settings in the **Detail Control** menu will automatically set to **Custom** (see next page).

6 Select the required option by pressing the ◀ or ▶ button.

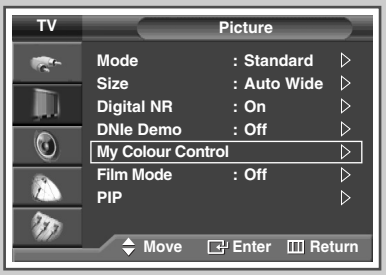
Result: The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

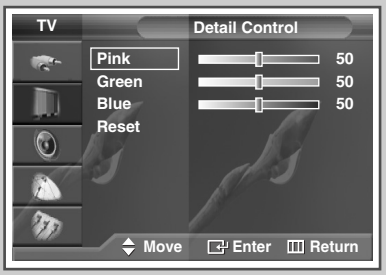
7 When you are satisfied with your setting, press the **ENTER** (↵) button.

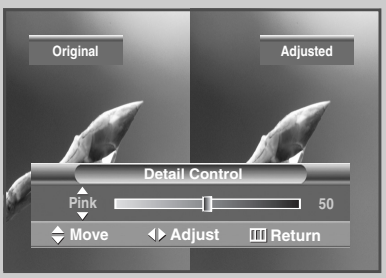
8 Press the **EXIT** button to exit.

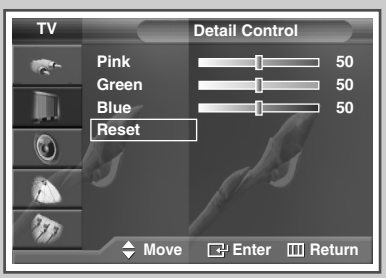
➢
- The My Colour Control is not available in PC mode.
- When running the My Colour Control feature, the current picture is captured as a still image before being displayed on the screen.
- You cannot use this function, when PIP is On.

Setting the My Colour Control (Detail Control)









This setting can be adjusted to suit your personal preferences.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The **Picture** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **My Colour Control**.
Press the **ENTER** (↵) button.

5 Press the ▲ or ▼ button to select **Detail Control**.
Press the **ENTER** (↵) button.

6 Select the required option (**Pink**, **Green**, or **Blue**) by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

7 Press the ◄ or ► button until you reach the optimal setting.

Result: Changing the adjustment value will refresh the adjusted screen.

➢ Press the ▲ or ▼ button to select other option(s).

8 Press the **MENU** (▥) button.

Result: The **Detail Control** menu is displayed again.

9 To return the factory defaults, select **Reset** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

Result: The previously adjusted colours will be reset to the factory defaults.

10 Press the **EXIT** button to exit.

Setting the Blue Screen

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the Blue Screen mode to Off.

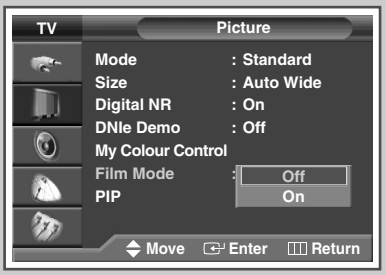
1. Press the **MENU** (▥) button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Setup**.
   Result: The **Setup** menu is displayed.
3. Press the **ENTER** (↵) button.
4. Press the ▲ or ▼ button to select **Blue Screen**.
   Press the **ENTER** (↵) button.
5. Select **Off** or **On** by pressing the ▲ or ▼ button.
   Press the **ENTER** (↵) button.
6. Press the **EXIT** button to exit.

Activating Panel Button Lock

This feature allows you to lock the TV panel buttons so that it cannot be operated via the TV panel. It can, however, still be operated via the remote control. Only remote control can release the panel lock setting, so keep the remote control away from unauthorized users.

1. Press the **MENU** (▥) button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Setup**.
   Result: The **Setup** menu is displayed.
3. Press the **ENTER** (↵) button.
4. Press the ▲ or ▼ button to select **Panel Lock**.
   Press the **ENTER** (↵) button.
5. Select **Off** or **On** by pressing the ▲ or ▼ button.
   Press the **ENTER** (↵) button.
6. Press the **EXIT** button to exit.

Setting the Film Mode



You can automatically sense and process film signals from all sources and adjust the picture for optimum quality.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The **Picture** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Film Mode**.
Press the **ENTER** (↵) button.

5 Select **Off** or **On** by pressing the ▲ or ▼ button.

- **Off** Switches off the film mode.
- **On** Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality.

6 When you are satisfied with your setting, press the **ENTER** (↵) button.

7 Press the **EXIT** button to exit.

➢ ◆ The Film Mode is not available in PC, Component (except 480i, 576i), or HDMI mode.

Viewing the Picture in Picture (PIP)

You can display a sub picture within the main picture of a TV program or external A/V devices. In this way you can monitor the video input from any connected devices while watching TV or other video input.

1 Press the **MENU** (☐☐) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The **Picture** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **PIP**.
Press the **ENTER** (↵) button.

Result: The **PIP** is selected.

5 Press the **ENTER** (↵) button again.
To activate, set **PIP** to **on** by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

➢ You can select these options by simply pressing the **PIP** (PIP) button on the remote control.

6 Press the ▲ or ▼ button to select **Source**.
Press the **ENTER** (↵) button.

Result: The following options are available.

TV - Ext.1 - Ext.2 - AV - S-Video

➢ The same source cannot be selected on both the main and sub screens.

7 Select a source of the sub picture by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

8 Press the ▲ or ▼ button to select **Swap**.
Press the **ENTER** (↵) button.

Result: The main picture and sub picture are interchanged.

➢ You cannot use the Swap function for PC, HDMI or Component.

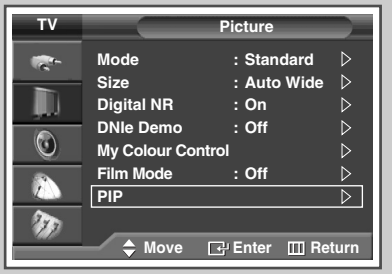
9 Press the ▲ or ▼ button to select **Size**.
Press the **ENTER** (↵) button.

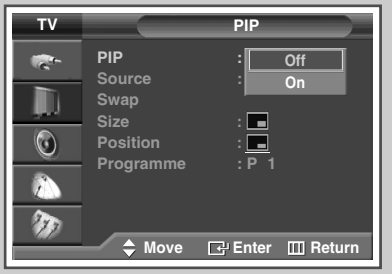
Result: The following options are available.

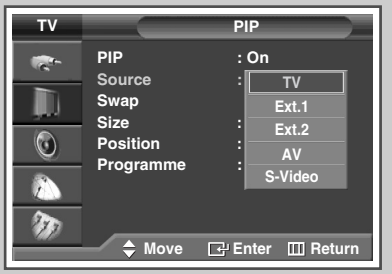
➢ You cannot use the Double size (☐☐, ☐☐) function for **PC** or **HDMI** mode.

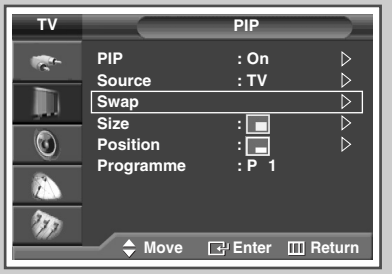
10 Select a size of the sub picture by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

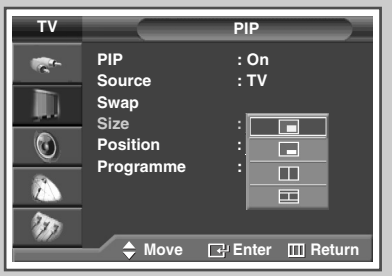
continued...

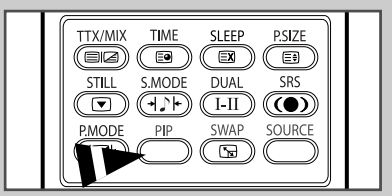


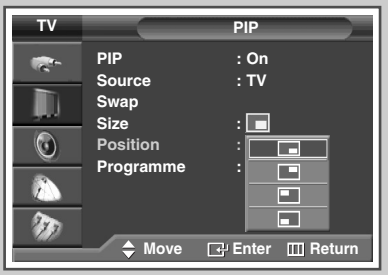


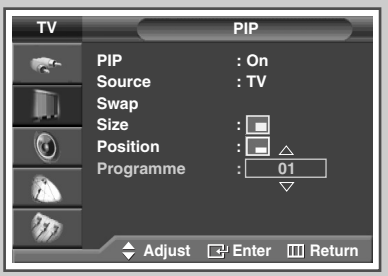












11 Press the ▲ or ▼ button to select **Position**.
Press the **ENTER** (↵) button.

Result: The following options are available.

– – –

➢ The **Position** menu is available when the **Size** is or mode.

12 Select a position of the sub picture by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

13 Press the ▲ or ▼ button to select **Programme**.
Press the **ENTER** (↵) button.

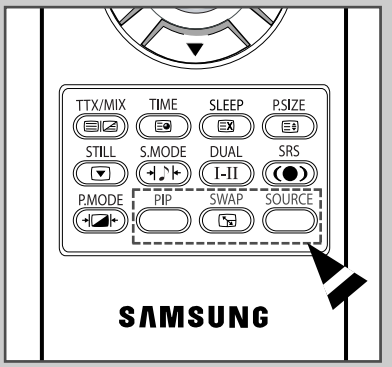
14 Select the channel that you want to view through sub picture by pressing the ▲ or ▼ button.

15 When you are satisfied with your setting, press the **ENTER** (↵) button.

16 Press the **EXIT** button to exit.

continued...

Easy functions of the remote control.



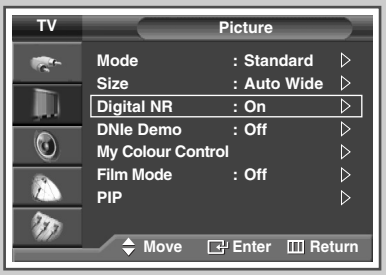
Buttons	Feature
PIP (PIP)	Used to activate or deactivate the PIP function directly.
SWAP (SWAP)	Used to interchange the main picture and the sub picture. ➢ When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the **SWAP** ( ) button after changing the sub picture channel. At this time, reselect the channel of main picture.
SOURCE (SOURCE)	Used to assign a source of the sub picture (**TV**, **Ext.1**, **Ext.2**, **AV**, or **S-Video**).

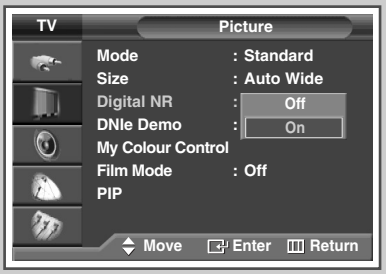
Table of PIP Settings

X - This PIP combination is not available.
O - This PIP combination is available.

Sub \ Main	TV	Ext.1	Ext.2	AV	S-Video	Component	PC	HDMI
TV	X	O	O	O	O	O	O	O
Ext.1	O	X	O	O	O	O	O	O
Ext.2	O	O	X	O	O	O	O	O
AV	O	O	O	X	O	O	O	O
S-Video	O	O	O	O	X	O	O	O
Component	X	X	X	X	X	X	X	X
PC	X	X	X	X	X	X	X	X
HDMI	X	X	X	X	X	X	X	X

Using the Digital NR (Noise Reduction) Feature





If the signal received by your television is weak, you can activate this feature to help reduce any static and ghosting that may appear on the screen.

1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Picture**. Result: The **Picture** menu is displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Digital NR**. Press the **ENTER** (↵) button.
5	Select **Off** or **On** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.
6	Press the **EXIT** button to exit.

Changing the Sound Standard

You can select the type of special sound effect to be used when watching a given broadcast.

1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The **Sound** menu is displayed.

3 Press the **ENTER** ( ) button.

Result: The **Mode** is selected.

4 Press the **ENTER** ( ) button again.

5 Select the required option by pressing the ▲ or ▼ button.

Result: The following options are available.

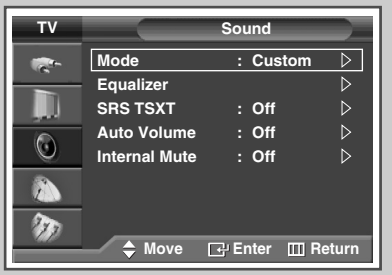
Standard - **Music** - **Movie** - **Speech** - **Custom**

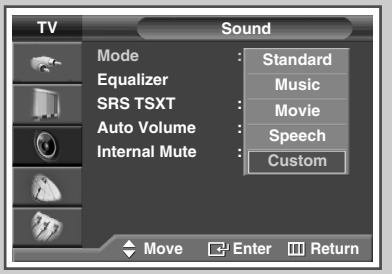
➢
- ◆ Choose **Standard** for the standard factory settings.
- ◆ Choose **Music** when watching music videos or concerts.
- ◆ Choose **Movie** when watching movies.
- ◆ Choose **Speech** when watching a show that is mostly dialog (i.e., news).
- ◆ Choose **Custom** to recall your personalized settings (see “Customizing the Sound Settings”, page 40).

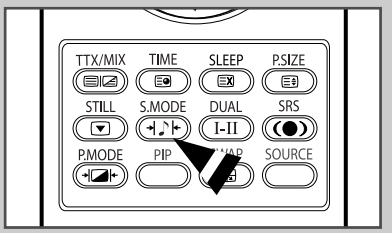
6 When you are satisfied with your setting, press the **ENTER** ( ) button.

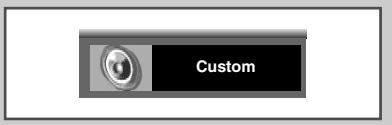
7 Press the **EXIT** button to exit.

➢ You can select these options by simply pressing the **S.MODE** (: Sound Mode) button on the remote control.

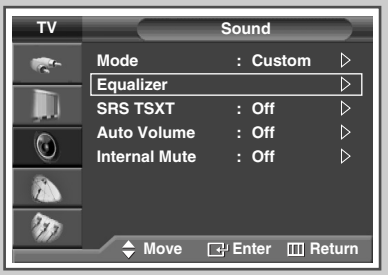


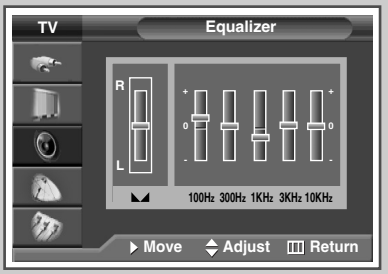






Customizing the Sound Settings





Your television has several settings which allow you to control the sound quality.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The **Sound** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Equalizer**.
Press the **ENTER** (↵) button.

Result: The **Equalizer** menu is displayed.

5 Select the required option (balance or equalizer) by pressing the ◀ or ▶ button.

6 Press the ▲ or ▼ button until you reach the optimal setting.
Press the **ENTER** (↵) button.

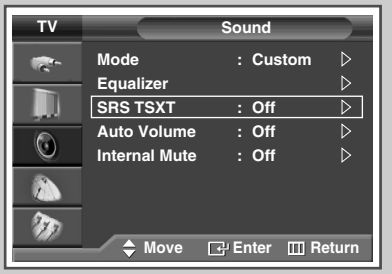
7 Press the **EXIT** button to exit.

➢ If you make any changes to the sound settings, the sound standard is automatically switched to **Custom**.

➢
- **L/R Sound Balance Adjustment**
  To adjust the sound balance of the L/R speakers.
- **Bandwidth Adjustment (100Hz, 300Hz, 1KHz, 3KHz, 10KHz)**
  To adjust the level of different bandwidth frequencies.

Setting the TruSurround XT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.



1 Press the **MENU** (☐☐☐) button.

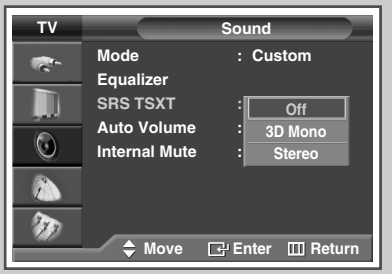
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The **Sound** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **SRS TSXT**.
Press the **ENTER** (↵) button.



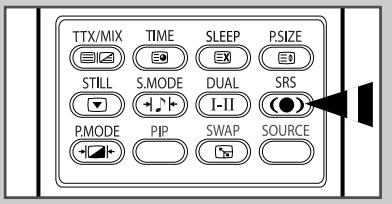
5 Select the required option by pressing the ▲ or ▼ button.

Result: The following options are available.

Off - 3D Mono - Stereo

6 When you are satisfied with your setting, press the **ENTER** (↵) button.

7 Press the **EXIT** button to exit.



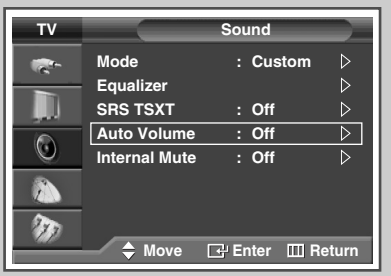
➢ You can select these options simply by pressing the **SRS** (●) button on the remote control.

➢ TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.

SRS(●) TruSurround XT

Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, the volume level differs between stations, therefore it is an inconvenience to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



1 Press the **MENU** (☐☐☐) button.

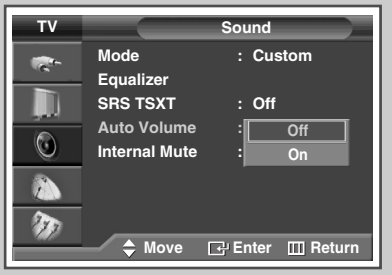
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The **Sound** menu is displayed.

3 Press the **ENTER** (↵) button.

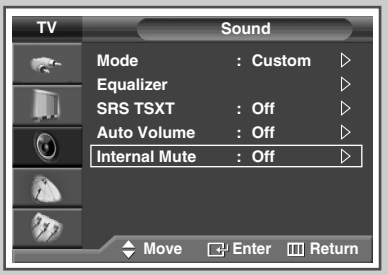
4 Press the ▲ or ▼ button to select **Auto Volume**.
Press the **ENTER** (↵) button.

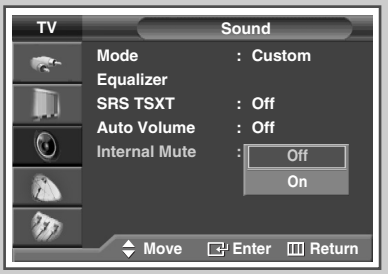


5 Select **Off** or **On** by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

6 Press the **EXIT** button to exit.

Selecting the Internal Mute



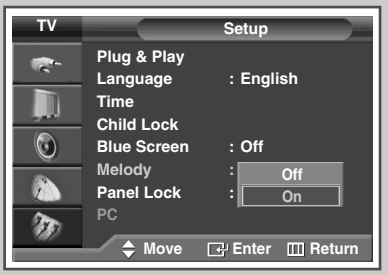


If you want to hear the sound through separate speakers, cancel the internal amplifier.

1. Press the **MENU** (▥) button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Sound**.
   Result: The **Sound** menu is displayed.
3. Press the **ENTER** (↵) button.
4. Press the ▲ or ▼ button to select **Internal Mute**.
   Press the **ENTER** (↵) button.
5. Select **Off** or **On** by pressing the ▲ or ▼ button.
   Press the **ENTER** (↵) button.
6. Press the **EXIT** button to exit.

➢ The **VOL +**, **VOL -** and **MUTE** (🔇) buttons do not operate when the **Internal Mute** is set to **On**.

Setting the Melody Sound

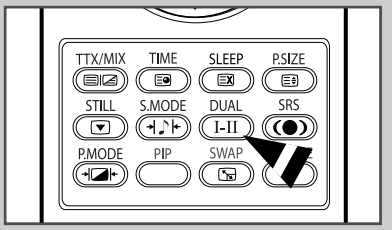


You can hear melody sound when you switch the television on or off.

1. Press the **MENU** (▥) button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Setup**.
   Result: The **Setup** menu is displayed.
3. Press the **ENTER** (↵) button.
4. Press the ▲ or ▼ button to select **Melody**.
   Press the **ENTER** (↵) button.
5. Select **Off** or **On** by pressing the ▲ or ▼ button.
   Press the **ENTER** (↵) button.
6. Press the **EXIT** button to exit.

Selecting the Sound Mode (depending on the model)

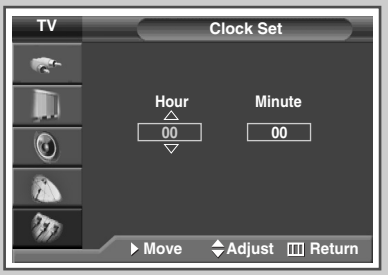
The DUAL I-II button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "DUAL-I" or "Stereo", depending on the current transmission.

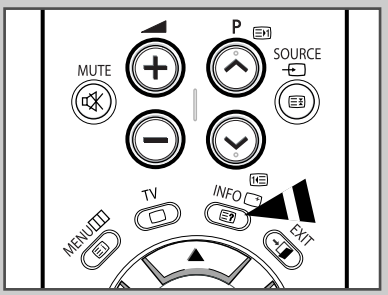


	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Regular + NICAM Mono	**NICAM Mono ↔ Mono**
	NICAM stereo	**NICAM stereo ↔ Mono** (Forced mono)
	NICAM DUAL-I/II	**NICAM DUAL-I → NICAM DUAL-II → Mono**
A2 Stereo	Regular broadcast (Standard audio)	**Mono**
	Bilingual or DUAL-I/II	**DUAL-I ↔ DUAL-II**
	Stereo	**Stereo ↔ Mono** (Forced mono)

➢
- If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- If the stereo signal is weak and automatic switching occurs, switch to **Mono**.
- When receiving mono sound in AV mode, connect to the AUDIO-L input connector on the panel (front or side, depending on the model). If mono sound only comes out of the left speaker, press the **DUAL I-II** button.

Setting and Displaying the Current Time





You can set the television's clock so that the current time is displayed by pressing the INFO ( ) button. You must also set the time if you wish to use the automatic on or off timers.

1 Press the **MENU** ( ) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The **Setup** menu is displayed.

3 Press the **ENTER** ( ) button.

4 Press the ▲ or ▼ button to select **Time**.
Press the **ENTER** ( ) button.

Result: The **Clock Set** is selected.

5 Press the **ENTER** ( ) button again.

6 Press the ◀ or ▶ button to select **Hour** or **Minute**.
Set these by pressing the ▲ or ▼ button.

➢ You can set the hour and minute directly by pressing the numeric buttons on the remote control.

7 When you are satisfied with your setting, press the **ENTER** ( ) button.

8 Press the **EXIT** button to exit.

➢ In the event of a power interruption or the set being turned off at the supply, the settings for the Clock will be lost.

Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to Standby mode.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The **Setup** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Time**.
Press the **ENTER** (↵) button.

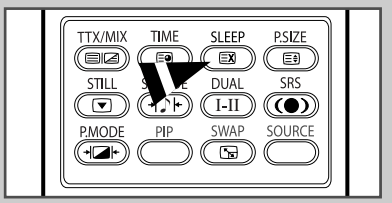
Result: The **Time** menu is displayed.

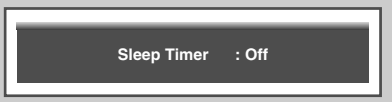
5 Press the ▲ or ▼ button to select **Sleep Timer**.
Press the **ENTER** (↵) button.

6 Select the preset time interval (**Off**, **30**, **60**, **90**, **120**, **150**, or **180**) for staying on by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

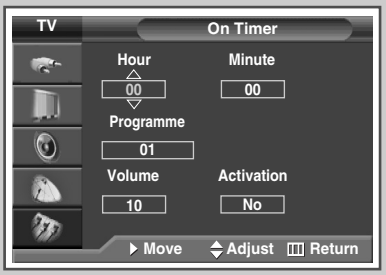
7 Press the **EXIT** button to exit.

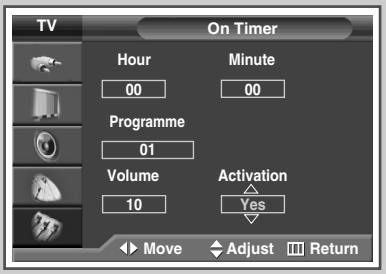
➢
- You can select these options simply by pressing the **SLEEP** button on the remote control.
- If the sleep timer is not yet set, **Off** is displayed.
  If the sleep timer is already set, the remaining time before which the television switches to standby mode is displayed.





Switching the Television On and Off Automatically





You can set the on or off timers so that the television will:

- ***Switch on automatically and tune to the channel of your choice at the time you select.***
- ***Switch off automatically at the time you select.***

➢ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on page 44).

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The **Setup** menu is displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Time**.
Press the **ENTER** (↵) button.

Result: The **Time** menu is displayed.

5 Press the ▲ or ▼ button to select **On Timer**.
Press the **ENTER** (↵) button.

Result: The **On Timer** menu is displayed.

6 Select **Hour**, **Minute**, **Programme**, or **Volume** by pressing the ◄ or ► button.
Set these by pressing the ▲ or ▼ button.

➢ You can set the hour and minute directly by pressing the numeric buttons on the remote control.

7 Press the ◄ or ► button to select **Activation**.

8 To activate **On Timer** with the setting entered, select **Yes** by pressing the ▲ or ▼ button.

9 Press the **ENTER** (↵) button.

Result: The **Time** menu is displayed again.

continued...

10 Press the ▲ or ▼ button to select **Off Timer**.
Press the **ENTER** (↵) button.

Result: The **Off Timer** menu is displayed.

11 Select **Hour** or **Minute** by pressing the ◄ or ► button.
Set these by pressing the ▲ or ▼ button.

➢ You can set the hour and minute directly by pressing the numeric buttons on the remote control.

12 Press the ◄ or ► button to select **Activation**.

13 To activate **Off Timer** with the setting entered, select **Yes** by pressing the ▲ or ▼ button.

14 When you are satisfied with your setting, press the **ENTER** (↵) button.

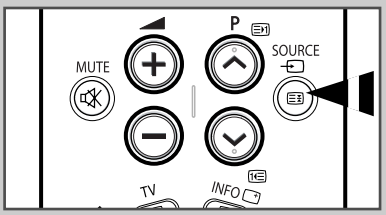
15 Press the **EXIT** button to exit.

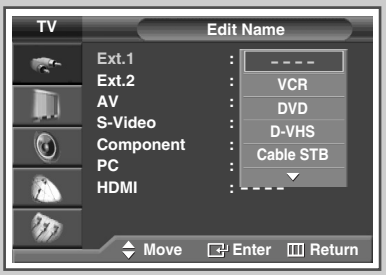
➢ **Auto Power Off**

When you set the timer "On", the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating or leakages, which may occur if a TV is on for too long (when you are on vacation, for example).

➢ If no signal is received for 15 minutes, the TV will be automatically turned off.

Viewing an External Signal Source





Use the remote control to switch between viewing signal from connected equipment, such as VCR, DVD, Set-Top box, and the TV source (broadcast or cable).

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the **ENTER** (↵) button to select **Input**.

Result: The **Input** menu is displayed.

3 Press the **ENTER** (↵) button.

Result: The **Source List** is selected.

4 Press the ▲ or ▼ button to select the signal source, press the **ENTER** (↵) button.

Result: The available signal sources are listed.

➢
- **TV**, **Ext.1**, **Ext.2**, **Component**, **PC**, or **HDMI** : on the TV's rear panel.
- **AV**, **S-Video** : on the TV's side panel.
- You can also set these options simply by pressing the **SOURCE** (↵) button on the remote control.
- Only connected devices can be selected

5 Press the **MENU** (▥) button.

Result: The main menu is displayed.

6 Press the **ENTER** (↵) button to select **Input**.

Result: The **Input** menu is displayed agian.

7 Press the ▲ or ▼ button to select **Edit Name**.
Press the **ENTER** (↵) button.

8 Press the ▲ or ▼ button to select external source to be edited.
Press the **ENTER** (↵) button.

Result: The available device names are listed.

VCR, **DVD**, **D-VHS**, **Cable STB**, **HD STB**, **Satellite STB**, **AV Receiver**, **DVD Receiver**, **Game**, **Camcorder**, **DVD Combo**, **DHR** (DVD HDD Recorder), or **PC**

9 Select the required device by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

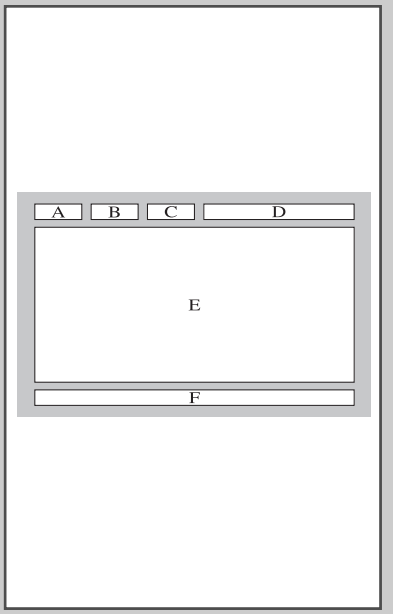
10 Press the **EXIT** button to exit.

➢ If you change the external source while viewing, pictures might take a short period of time to switch.

Teletext Feature

Most television channels provide written information services via teletext. Information provided includes:

- ***Television programme times***
- ***News bulletins and weather forecasts***
- ***Sports results***
- ***Travel information***



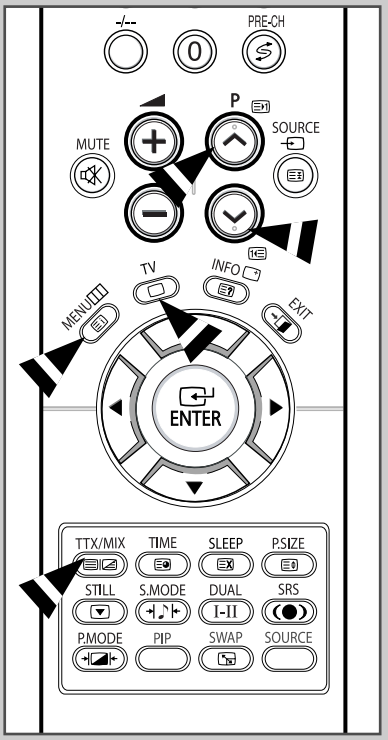
The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.

➢ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:

- Entering the page number
- Selecting a title in a list
- Selecting a coloured heading (FASTEXT system)

Displaying the Teletext Information



You can display Teletext information at any time on your television.

☛ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:

- Information may be missing
- Some pages may not be displayed

1 Select the channel providing the Teletext service by pressing the **P** ⌃ or ⌄ button.

2 Press the **TTX/MIX** ( ) button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the (index) button.

3 Press the **TTX/MIX** ( ) button again.

Result: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.

4 If you wish to display the actual broadcast and teletext information on a single screen, press the **TTX/MIX** ( ) button again.

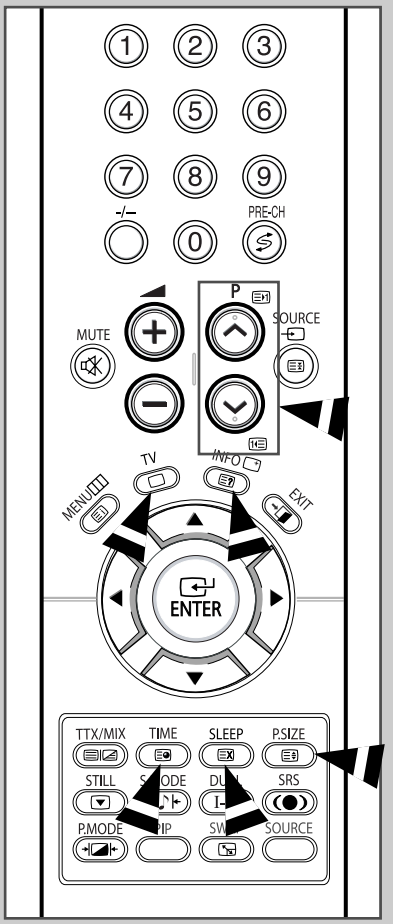
5 To exit from the teletext display, press the **TV** ( ) button.

Selecting Display Options

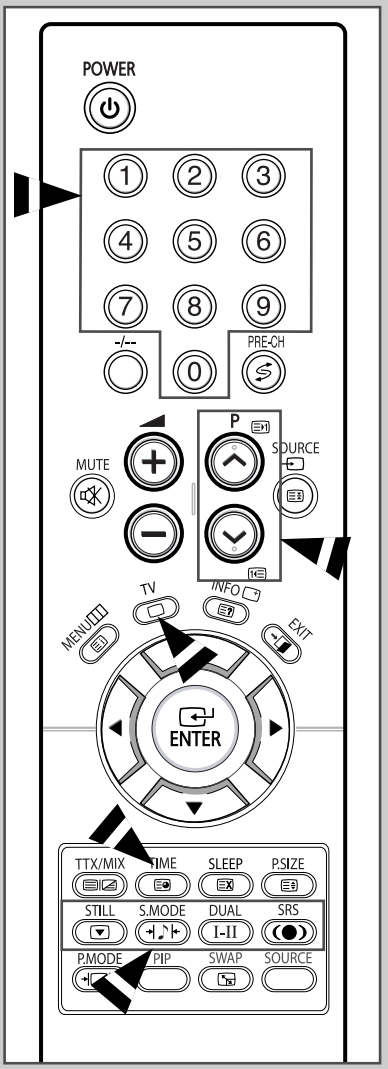
When you have displayed a Teletext page, you can select various options to suit your requirements.

To display...	Press the...
◆ Hidden text (answers to quiz games, for example)	(reveal)
◆ The normal screen	(reveal) again
◆ A secondary page	(sub-page)
◆ The broadcast when searching for a page	(cancel)
◆ The next page	(page up)
◆ The previous page	(page down)
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	(size) • Once • Twice
◆ Normal screen	• Three times

➢ To return to the normal display after using the reveal or size feature, press the **TV** ( ) button.



Selecting a Teletext Page



You can enter the page number directly by pressing the numeric buttons on the remote control.

1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed. If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the (hold) button. Press it again to resume.

2 If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.
Press the coloured button corresponding to the topic that you wish to select; the available topics are given in the status line.

Result: The page is displayed with other coloured information that can be selected in the same way.

3 To display the previous or next page, press the corresponding coloured button.

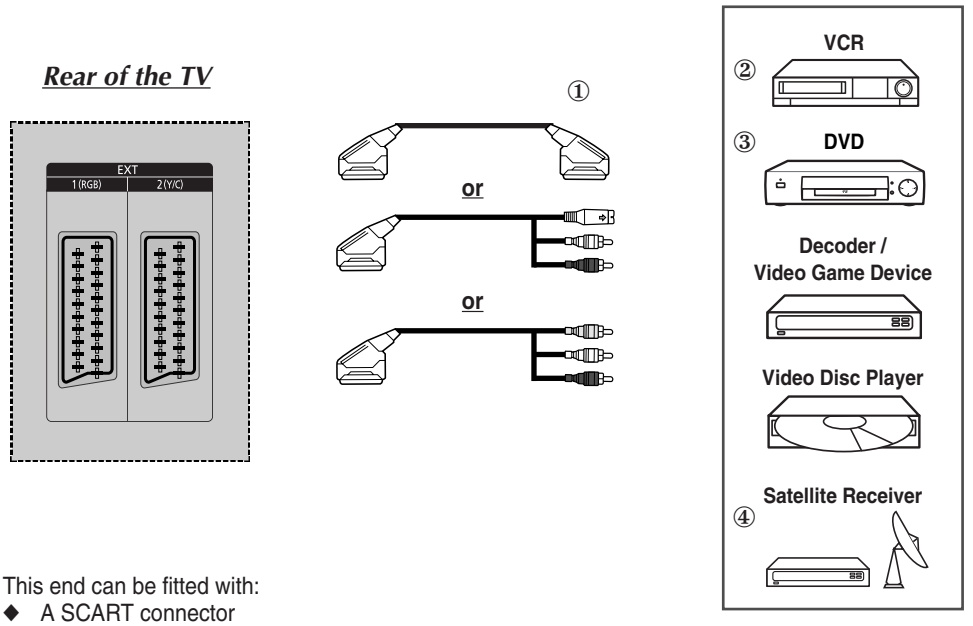
4 To display the sub-page, see the following steps.

- Press the (sub-page) button.
  Result: The available sub-pages appear.
- Select the required sub-page. Sub-pages can be scrolled by pressing the or button.

5 When you have finished, press the **TV** ( ) button to return to your normal broadcast.

Connecting to the External Input/Output

"**EXT 1**" is used for the equipment with an RGB output, such as video game consoles or Cable/Satellite sources



① This end can be fitted with:
- A SCART connector
- An S-Video connector and two audio RCA connectors (L+R); **EXT 2**
- Three RCA connectors (VIDEO + AUDIO-L and R)

② If you have a second VCR and wish to copy cassette tapes, connect the source VCR to **EXT 1** and the target VCR to **EXT 2** so that you can redirect the signal from **EXT 1** to **EXT 2**.

③ If you have a decoder, connect the decoder to the VCR and the VCR to the television.

④ When you wish to record a programme, connect the receiver to **EXT 1** and the VCR to **EXT 2** so that you can redirect the signal from **EXT 1** to **EXT 2**.

➢ Please be sure to match the colour coded input terminals and cable jacks.

Input/Output Specification

Connector	Input				Output
	Video	Audio (L/R)	S-Video	RGB	Video + Audio (L/R)
EXT 1	✔	✔	✔	✔	Only TV output is available.
EXT 2	✔	✔	✔		Monitor output

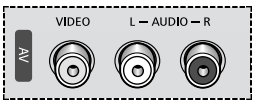
☛ Whenever you connect an audio or video system to your television, ensure that all elements are switched off.

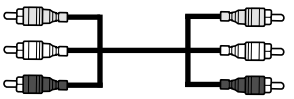
Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

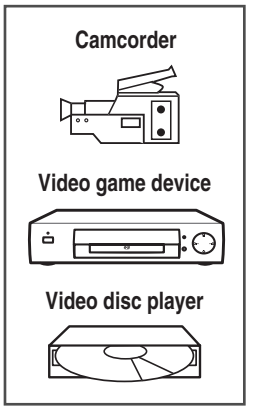
Connecting to the RCA Input

➢ The RCA (**VIDEO** + **AUDIO L /R**) connectors are used for equipment, such as camcorders, video disc players, and some video game devices.

Side of the TV





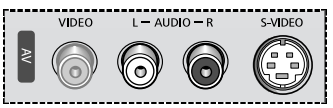


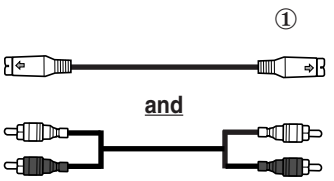
➢ Please be sure to match the colour coded input terminals and cable jacks.

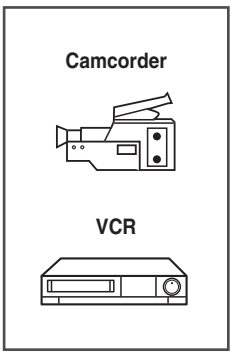
Connecting to the S-Video Input

➢ The **S-VIDEO** and **AUDIO L /R** connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

Side of the TV







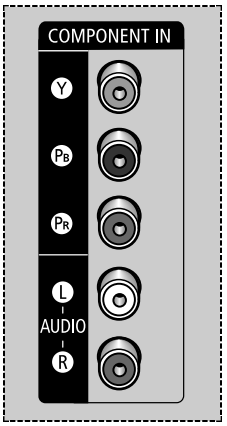
① To play pictures and sound, both the **S-VIDEO** and **AUDIO L /R** connectors must be used.

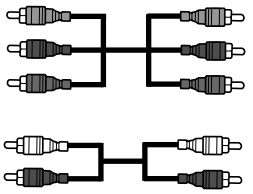
➢ Please be sure to match the colour coded input terminals and cable jacks.

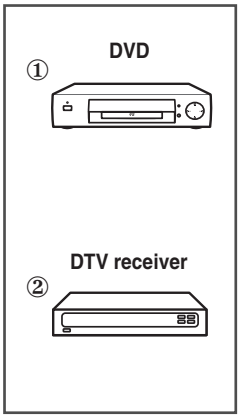
☛ Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting to the Component Input

Rear of the TV







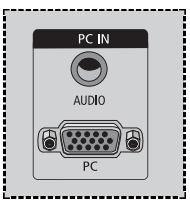
① The **COMPONENT IN** connectors are used for equipment with a DVD or DTV receiver output. (480i, 480p, 576i, 576p, 720p, 1080i)

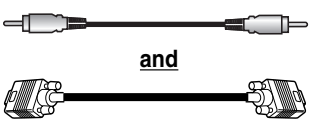
➢ Please be sure to match the colour coded input terminals and cable jacks.

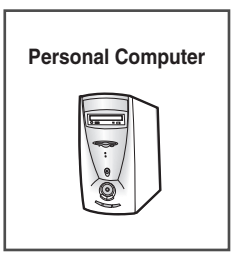
Connecting to the PC Input

➢ The **PC IN** (video) and **AUDIO** connectors are used for interfacing with your PC.

Rear of the TV







Connecting to the HDMI (High Definition Multimedia Interface) Input

➢ The **HDMI/DVI IN** connector is used for equipment with an HDMI out.

Rear of the TV

DTV Set-Top Box

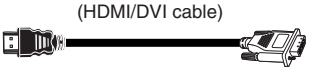
Connecting to the HDMI/DVI Compatible

➢ The **HDMI/DVI IN** connector is used for equipment with a DVI out.

Rear of the TV

and

(HDMI/DVI cable)

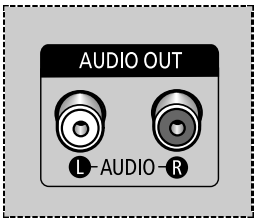


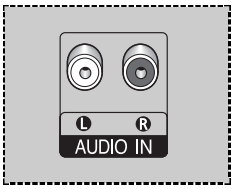
DTV Set-Top Box

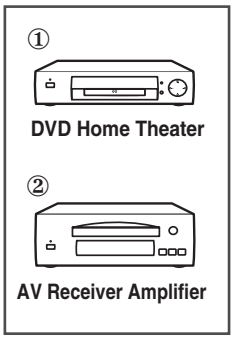
Connecting Home Theater System

Use the **AUDIO OUT** ports of the TV for Home Theater System Connections.

Rear of the TV







Connecting the Home Theater System

① Connect the monitoring audio out L and R jacks of the **AUDIO OUT** on the rear-side connection panel of the TV to the AUDIO IN jacks of the DVD Home Theater System (or AV Receiver) using the audio cable.

② Press the **SOURCE** (⏎) button to select the desired external device connected to the TV.

③ If you want to hear the sound through separate speakers, cancel the internal amplifier.

➢ Please be sure to match the colour coded input terminals and cable jacks.

☛
- ◆ Refer to corresponding user's manual from the manufacturer for wiring the speakers to the DVD Home Theater System (or AV Receiver).
- ◆ Disable the TV internal speaker to enjoy the rich sound through the speakers of your Home Theater System.

To Display the DVD Home Theater

① Turn the TV on and press the **SOURCE** (⏎) button to select the **Ext.1**, **Ext.2** or **Component**.

② Be sure to connect the video cable properly if desired external input (**Ext.1**, **Ext.2** or **Component**) cannot be selected.

③ Play the DVD after activating the DVD Home Theater System.

④ Use the volume control of the Home Theater System while watching the TV using the DVD Home Theater, where the TV does not produce the audio.

Setting up Your PC Software (Windows only)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 Right click the mouse on the Windows Desktop, then click on **Properties**.
The **Display Properties** will be displayed.

2 Click on **Settings tab**, then set the Display Mode with reference to the Display Modes Table.
You do not need to change the Colours settings.

3 Click on **Advanced**. A new settings dialog box will be displayed.

4 Click on the **Monitor** tab, then set the **Screen refresh rate** with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so instead of setting the **Screen refresh rate**.

5 Click on **OK** to close the window, then Click on **OK** button to the **Display Properties** window. Automatic re-booting may commence at this moment.

6 Shutdown the PC, and connect it to your TV. (“Connecting to the PC Input” on page 55)

➢
- The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
- When you use your TV as a PC monitor, it supports Colours up to 32 bits.
- In this case, the display on the TV may look different depending on your particular version of Windows or the PC manufacturer.
- When connecting a PC you must set it to the display settings that are supported by the TV. Otherwise, the message **`Out of input range`** will be displayed.

PC Input Mode

Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

Standard	Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VGA	720 x 400	31.47	70.00	28.322	-/-
	640 x 480	31.47	60.00	25.175	-/+
		35.00	66.70	30.24	-/-
		37.86	72.80	31.50	-/-
		37.50	75.00	31.50	-/-
		43.27	85.00	36.00	-/-
SVGA	800 x 600	35.16	56.30	36.00	-+/-
		37.88	60.30	40.00	+/+-
		48.08	72.20	50.00	+/+
		46.87	75.00	49.50	+/+
		53.67	85.10	56.25	+/+
	832 x 624	49.73	74.60	57.284	-/+
XGA	1024 x 768	48.36	60.00	65.00	-/-
		56.40	70.10	75.00	-/-
		57.80	72.00	74.99	-/-
		60.02	75.00	78.75	+/-
SXGA	1280 x 720	44.70	59.80	74.50	-/+

◆ The interlace mode is not supported.

Notes

◆ 1280 x 720 mode is 16:9 mode.

◆ When this television is used as a PC display, 24-bit colour is supported (over 16 million colours).

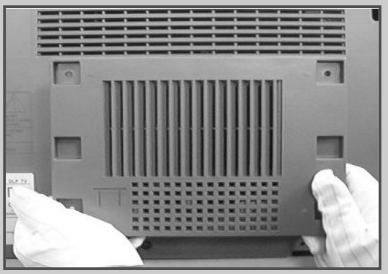
◆ Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows). Check your PC instruction book for information about connecting your PC to a television.

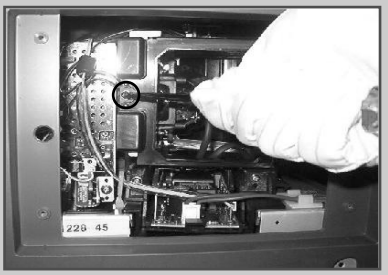
◆ If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the **SOURCE** ( ) button to enter the Video mode. Also, make sure that the PC is connected.

◆ When connecting a notebook PC to the television, make sure that the PC screen is displayed through only the television (Otherwise, random signals might appear). It depends on the note PC model.

◆ When horizontal synchronous signals seem irregular in PC mode, check PC power saving mode or cable connections.

Replacing the Lamp





1	Unplug TV, then use a screwdriver to remove the screw.
2	Remove the Lamp cover.
3	Remove the screws securing the Lamp by using a screwdriver.
4	Separate the Lamp from the engine by holding the handle and pulling it out
5	To reinstall the Lamp, follow these steps in reverse order.

- Why do I need to replace the lamp?
  The lamp used in a projection TV has a limited lifespan. For the best screen quality it needs to be replaced periodically. After replacing the lamp, the screen quality will be bright and clear as new.

- When do I need to replace it?
  It should be replaced when the screen becomes darker, less clear or when all three LEDs on the front (TIMER, LAMP and STAND BY/TEMP) are flashing.

- Check before lamp replacement
  - Turn the power off and wait for 30 minutes before replacing the lamp as it will be hot.
  - The lamp must be the same code to avoid damage to the TV. The lamp code is indicated on the lamp case or the side of TV.
  - After checking the lamp code, give to the store where you purchased the TV or to a Samsung Service Center.

- Caution
  - Do not touch the glass part of the lamp with your bare hands nor insert any foreign object inside the cover as it may cause poor screen quality, electric shock or fire.
  - Do not place the old lamp near flammable objects or within the reach of children.
  - Don't allow dirt or dust to accumulate inside the lamp cover or on the lamp. A dirty cover or lamp can catch fire, explode and cause electric shock.
  - If a new lamp is improperly handled, the screen quality can be affected and the expected lifespan of the lamp can be reduced.
  - Be sure to tighten the lamp cover on the TV after changing the lamp. Note that the TV will not function if the lamp cover is not securely attached. Please tighten the holding screw on the lamp cover after it has been attached to the TV.

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

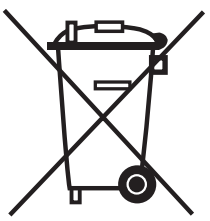
If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the power button (On/Off) and the **POWER** (⏻) button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume. ◆ Check if Internal Mute is set to ON.
Normal picture but no sound	◆ Check the volume. ◆ Check whether the volume **MUTE** (🔇) button on the remote control has been pressed.
No picture or black and white picture	◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	◆ Try to identify the electrical appliance that is affecting the television, then move it further away. ◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	◆ Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.
Screen is black and power indicator light blinks steadily	◆ On your computer check; Power, Signal Cable. ◆ The TV is using its power management system. ◆ Move the computer's mouse or press any key on the keyboard. ◆ On your equipment check (STB, DVD, etc) ; Power, Signal Cable. ◆ The TV is using its power management system. ◆ Press the **SOURCE** (⏎) button on the panel or remote control. ◆ Turn the TV off and on.

Technical Specifications

The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model name	SP46L6HV	SP50L6HV	SP61L6HV	SP67L6HV
Colour systems	AUTO, PAL, SECAM, NTSC4.43			
TV standards	BG, DK, I, L			
Audio output power	15 W + 15 W			
Dimensions (W x D x H)	1088 x 342.5 x 814.2 mm	1182 x 354 x 869.7 mm	1446 x 466.5 x 1056.2 mm	1584 x 502.5 x 1144.5 mm
Weights	28.8 kg	31.5 kg	41.4 kg	47.5 kg



Correct Disposal of This Product

(**W**aste **E**lectrical & **E**lectronic **E**quipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

SAMSUNG

Contact SAMSUNG WORLD-WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
BELGIUM	02 201 2418	www.samsung.com/be
CZECH REPUBLIC	844 000 844	www.samsung.com/cz
DENMARK	38 322 887	www.samsung.com/dk
FINLAND	09 693 79 554	www.samsung.com/fi
FRANCE	08 25 08 65 65 (€ 0,15/Min)	www.samsung.com/fr
GERMANY	01805 - 121213 (€ 0,12/Min)	www.samsung.de
HUNGARY	06 40 985 985	www.samsung.com/hu
ITALIA	199 153 153	www.samsung.com/it
LUXEMBURG	02 261 03 710	www.samsung.lu
NETHERLANDS	0900 20 200 88 (€ 0,10/Min)	www.samsung.com/nl
NORWAY	231 627 22	www.samsung.com/no
POLAND	0 801 801 881	www.samsung.com/pl
PORTUGAL	80 8 200 128	www.samsung.com/pt
RUSSIA	8-800-200-0400	www.samsung.ru
SLOVAKIA	0850 123 989	www.samsung.com/sk
SPAIN	902 10 11 30	www.samsung.com/es
SWEDEN	08 585 367 87	www.samsung.com/se
U.K	0870 242 0303	www.samsung.com/uk
UKRAINE	8-800-502-0000	www.samsung.com/ur